

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834
(415) 576-0200

Atty. Docket No. 17957-000110

"Express Mail" Label No. EM197112124US

Date of Deposit May 7, 1997

74280 U.S. PTO
08852495
05/07/97

67014 U.S. PTO

05/07/97

UNITED STATES PATENT APPLICATION
ASST. COMMISSIONER FOR PATENTS
Washington, D. C. 20231

Sir:

Transmitted herewith for filing is the

- ☐ patent application of
☐ design patent application of
☒ continuation-in-part patent application of

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Asst. Commissioner for Patents, Washington, D. C. 20231

By T. Smith

Inventor(s): **David A. Ruddy and Roger K. Wolff**

For: **Polymorphisms in the REgion of the Human Hemochromatosis Gene**

☒ This application claims priority from each of the following Application Nos./filing dates:
08/724,394 / 10-01-96 ; 08/630,912 / 04-04-96 ; 08/652,265 / 05-23-96 .

☐ Please amend this application by adding the following before the first sentence: --This application claims the benefit of U.S. Provisional Application No. 60/_____, filed _____, the disclosure of which is incorporated by reference.--

Enclosed are:

- ☒ 147 sheet(s) of ☒ formal ☐ informal drawing(s).
☐ An assignment of the invention to _____
☒ A ☐ signed ☒ unsigned Declaration & Power of Attorney.
☐ A ☐ signed ☐ unsigned Declaration.
☐ A Power of Attorney.
☐ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27 ☐ is enclosed ☐ was filed in the earliest of the above-identified patent application(s).
☐ A certified copy of a _____ application.
☐ Information Disclosure Statement under 37 CFR 1.97.
☐ A petition to extend time to respond in the parent application of this continuation-in-part application.
☐

In view of the Unsigned Declaration as filed with this application and pursuant to 37 CFR §1.53(d), Applicant requests deferral of the filing fee until submission of the Missing Parts of Application.

DO NOT CHARGE THE FILING FEE AT THIS TIME.

Telephone:
(415) 576-0200

APPROFEE.TRN 11/96

Renee A. Fitts
Renee A. Fitts
Reg. No.: 35,136
Attorneys for Applicants

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111-3834
(415) 576-0200

Atty. Docket No. 17957-000110

"Express Mail" Label No. EM197112124US

Date of Deposit May 7, 1997

67014 U.S. PTO

15503/97
PATENT APPLICATION
ASST. COMMISSIONER FOR PATENTS
Washington, D. C. 20231

74280 U.S. PTO
08852495
05/07/97

Sir:

Transmitted herewith for filing is the

☐ patent application of

☐ design patent application of

☒ continuation-in-part patent application of

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Asst. Commissioner for Patents, Washington, D. C. 20231

By Town Smith

Inventor(s): David A. Ruddy and Roger K. Wolff

For: Polymorphisms in the REgion of the Human Hemochromatosis Gene

☒ This application claims priority from each of the following Application Nos./filing dates:
08/724,394 / 10-01-96 ; 08/630,912 / 04-04-96 ; 08/652,265 / 05-23-96 .

☐ Please amend this application by adding the following before the first sentence: --This application claims the benefit of U.S. Provisional Application No. 60/_____, filed _____, the disclosure of which is incorporated by reference.--

Enclosed are:

☒ 147 sheet(s) of ☒ formal ☐ informal drawing(s).

☐ An assignment of the invention to _____

☒ A ☐ signed ☒ unsigned Declaration & Power of Attorney.

☐ A ☐ signed ☐ unsigned Declaration.

☐ A Power of Attorney.

☐ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27 ☐ is enclosed ☐ was filed in the earliest of the above-identified patent application(s).

☐ A certified copy of a _____ application.

☐ Information Disclosure Statement under 37 CFR 1.97.

☐ A petition to extend time to respond in the parent application of this continuation-in-part application.

In view of the Unsigned Declaration as filed with this application and pursuant to 37 CFR §1.53(d), Applicant requests deferral of the filing fee until submission of the Missing Parts of Application.

DO NOT CHARGE THE FILING FEE AT THIS TIME.

Telephone:
(415) 576-0200

APPNOFEE.TRN 11/96

Renee A. Fitts
Renee A. Fitts
Reg. No.: 35,136
Attorneys for Applicants

**PATENT APPLICATION
FOR
Polymorphisms in the Region of the Human
Hemochromatosis Gene**

Inventors:

DAVID A. RUDDY, a citizen of the United
States of America, residing at
855 Greenwich Street
San Francisco, California 94133;

ROGER K. WOLFF, a citizen of the United
States of America, residing at
41 Eugene Street
Mill Valley, California 94941

Assignee:

Mercator Genetics, Inc.
4040 Campbell Avenue
Menlo Park, California 94025;
a Delaware Corporation.

Entity:

Small Entity

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94105
(415) 326-2400

**Polymorphisms in the Region of the Human
Hemochromatosis Gene**

This application is a continuation-in-part of U.S. Patent Application Serial No. 08/724,394, filed October 1, 1996, which is a continuation-in-part of U.S. Patent Application Serial No. 08/630,912, filed April 4, 1996, and U.S. Patent Application Serial No. 08/652,265, filed May 23, 1996, which are herein incorporated by reference in their entirety for all purposes.

BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HH gene are more susceptible to sporadic porphyria cutanea tarda and potentially other disorders (Roberts et al., Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of individuals of Northern European descent carry one copy of the HH gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in individuals of Northern European descent. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

The need for such diagnostics is documented, for example, in Barton, J.C. et al. Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. et al. New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-127 (1992); Balan, V. et al. Gastroenterology 107:453-459 (1994); Phatak, P.D. et al. Arch Int Med 154:769-776 (1994).

A single mutation in the HH gene, designated 24d1 in copending U.S.S.N. 08/630,912, gave rise to the majority of disease-causing chromosomes present in the population today. This is referred to herein as the "common" or "ancestral" or "common ancestral" mutation. These terms are used interchangeably. It appears that about 80% to 90% of all HH patients carry at least one copy of the common ancestral mutation which is closely linked to specific alleles of certain genetic markers close to this ancestral HH gene defect. These markers are, as a first approximation, in the allelic form in which they were present at the time the ancestral HH mutation occurred. See, for example, Simon, M. et al. Am J Hum Genet 41:89-105 (1987); Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995); Worwood, M. et al. Brit J Hematol 86:863-866 (1994); Summers, K.M. et al. Am J Hum Genet 45:41-48 (1989).

Several polymorphic markers in the HH region have been described and shown to have alleles that are associated with HH disease. These markers include the published microsatellite markers D6S258, D6S306 (Gyapay, G. et al. Nature Genetics 7:246-339 (1994)), D6S265 (Worwood, M. et al. Brit J Hematol 86:833-846 (1994)), D6S105 (Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995)), D6S1001 (Stone, C. et al. Hum Molec Genet 3:2043-2046 (1994)), D6S1260 (Raha-Chowdhury

et al. Hum Molec Genet 4:1869-1874 (1995)) as well as additional microsatellite and single-nucleotide-polymorphism markers disclosed in co-pending PCT application WO 96/06583, the disclosure of which is hereby incorporated by reference in its entirety. Additionally, copending U.S.S.N. 08/630,912 disclosed additional markers 24d2 and 24d7.

The symptoms of HH are often similar to those of other conditions, and the severe effects of the disease often do not appear immediately. Accordingly, it would be desirable to provide a method to identify persons who may be destined to become symptomatic in order to intervene in time to prevent excessive tissue damage associated with iron overload. One reason for the lack of early diagnosis is the inadequacy of presently available diagnostic methods to ascertain which individuals are at risk, especially while such individuals are presymptomatic.

Although blood iron parameters can be used as a screening tool, a confirmed diagnosis often employs liver biopsy which is undesirably invasive, costly, and carries a risk of mortality. Thus, there is a clear need for the development of an inexpensive and noninvasive diagnostic test for detection of homozygotes and heterozygotes in order to facilitate diagnosis in symptomatic individuals, provide presymptomatic detection to guide intervention in order to prevent organ damage, and for identification of heterozygote carriers.

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 1 or Figure 2, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 1 or Figure 2 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 KB substantially identical to the sequence of Figure 1 or Figure 2, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HH) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,

wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HH gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HH gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HH) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and assessing the DNA or RNA for the presence or absence of a genotype defined by a polymorphic allele of Table 1,

wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HH gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HH gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation HC14.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 depicts the nucleotide sequence of approximately 235 KB in the HH subregion from an unaffected individual.

Figure 2 depicts the nucleotide sequence of approximately 235 KB in the HH subregion from an affected individual.

5

DETAILED DESCRIPTION

A. Definitions

Abbreviations for the twenty naturally occurring amino acids follow conventional usage. In the polypeptide notation used herein, the left-hand direction is the amino terminal direction and the right-hand direction is the carboxyl-terminal direction, in accordance with standard usage and convention. Similarly, unless specified otherwise, the left hand end of single-stranded polynucleotide sequences is the 5' end; the left hand direction of double-stranded polynucleotide sequences is referred to as the 5' direction. The direction of 5' to 3' addition of nascent RNA transcripts is referred to as the transcription direction; sequence regions on the DNA strand having the same sequence as the RNA and which are 5' to the 5' end of the RNA transcript are referred to as "upstream sequences"; sequence regions on the DNA strand having the same sequence as the RNA and which are 3' to the 3' end of the RNA transcript are referred to as "downstream sequences".

The term "nucleic acids", as used herein, refers to either DNA or RNA. "Nucleic acid sequence" or "polynucleotide sequence" refers to a single- or double-stranded polymer of deoxyribonucleotide or ribonucleotide bases read from the 5' to the 3' end. It includes both self-replicating plasmids, infectious polymers of DNA or RNA and nonfunctional DNA or RNA. The complement of any nucleic acid sequence of the invention is understood to be included in the definition of that sequence.

"Nucleic acid probes" may be DNA or RNA fragments. DNA fragments can be prepared, for example, by digesting plasmid DNA, or by use of PCR, or synthesized by either the phosphoramidite method described by Beaucage and Carruthers, Tetrahedron Lett. 22:1859-1862 (1981), or by the triester method according to Matteucci, et al., J. Am. Chem. Soc.

103:3185 (1981), both incorporated herein by reference. A double stranded fragment may then be obtained, if desired, by annealing the chemically synthesized single strands together under appropriate conditions or by synthesizing the complementary strand using DNA polymerase with an appropriate primer sequence. Where a specific sequence for a nucleic acid probe is given, it is understood that the complementary strand is also identified and included. The complementary strand will work equally well in situations where the target is a double-stranded nucleic acid.

The phrase "selectively hybridizing to" refers to a nucleic acid probe that hybridizes, duplexes or binds only to a particular target DNA or RNA sequence when the target sequences are present in a preparation of total cellular DNA or RNA. "Complementary" or "target" nucleic acid sequences refer to those nucleic acid sequences which selectively hybridize to a nucleic acid probe. Proper annealing conditions depend, for example, upon a probe's length, base composition, and the number of mismatches and their position on the probe, and must often be determined empirically. For discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook et al., Molecular Cloning: a Laboratory Manual (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or Current Protocols in Molecular Biology, F. Ausubel et al., ed. Greene Publishing and Wiley-Interscience, New York (1987).

The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell.

5 The phrase "expression cassette", refers to nucleotide sequences which are capable of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors
10 necessary or helpful in effecting expression may also be used as described herein.

 The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence.

15 The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both
20 extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

25 The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term "gene" is
30 intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

35 The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant microorganism or cell culture is described as

hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

The phrase "recombinant protein" or "recombinantly produced protein" refers to a peptide or protein produced using non-native cells that do not have an endogenous copy of DNA able to express the protein. The cells produce the protein because they have been genetically altered by the introduction of the appropriate nucleic acid sequence. The recombinant protein will not be found in association with proteins and other subcellular components normally associated with the cells producing the protein. The terms "protein" and "polypeptide" are used interchangeably herein.

The following terms are used to describe the sequence relationships between two or more nucleic acids or polynucleotides: "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity", and "substantial identity". A "reference sequence" is a defined sequence used as a basis for a sequence comparison; a reference sequence may be a subset of a larger sequence, for example, as a segment of a full-length cDNA or gene sequence given in a sequence listing, or may comprise a complete cDNA or gene sequence.

Optimal alignment of sequences for aligning a comparison window may, for example, be conducted by the local homology algorithm of Smith and Waterman Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson and Lipman Proc. Natl. Acad. Sci. U.S.A. 85:2444 (1988), or by computerized implementations of these algorithms (for example, GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Dr., Madison, WI).

The terms "substantial identity" or "substantial sequence identity" as applied to nucleic acid sequences and as

used herein and denote a characteristic of a polynucleotide sequence, wherein the polynucleotide comprises a sequence that has at least 85 percent sequence identity, preferably at least 90 to 95 percent sequence identity, and more preferably at least 99 percent sequence identity as compared to a reference sequence over a comparison window of at least 20 nucleotide positions, frequently over a window of at least 25-50 nucleotides, wherein the percentage of sequence identity is calculated by comparing the reference sequence to the polynucleotide sequence which may include deletions or additions which total 20 percent or less of the reference sequence over the window of comparison. The reference sequence may be a subset of a larger sequence.

As applied to polypeptides, the terms "substantial identity" or "substantial sequence identity" mean that two peptide sequences, when optimally aligned, such as by the programs GAP or BESTFIT using default gap weights, share at least 80 percent sequence identity, preferably at least 90 percent sequence identity, more preferably at least 95 percent sequence identity or more. "Percentage amino acid identity" or "percentage amino acid sequence identity" refers to a comparison of the amino acids of two polypeptides which, when optimally aligned, have approximately the designated percentage of the same amino acids. For example, "95% amino acid identity" refers to a comparison of the amino acids of two polypeptides which when optimally aligned have 95% amino acid identity. Preferably, residue positions which are not identical differ by conservative amino acid substitutions. For example, the substitution of amino acids having similar chemical properties such as charge or polarity are not likely to effect the properties of a protein. Examples include glutamine for asparagine or glutamic acid for aspartic acid.

The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical

chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologies. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms which longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or

more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams et al. Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

B. Polymorphic Markers

The invention provides 397 new polymorphic sites in the region of the HH gene. These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

These polymorphisms provide surrogate markers for use in diagnostic assays to detect the likely presence of the mutations 24d1 and/or 24d2, in preferably 24d1, in homozygotes or heterozygotes. Thus, for example, DNA or RNA from an individual is assessed for the presence or absence of a genotype defined by a polymorphic allele of Table 1, wherein, as a result, the absence of a genotype defined by a

polymorphic allele of Table 1 indicates the likely absence of the HH gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HH gene mutation in the genome of the individual.

These markers may be used singly, in combination with each other, or with other polymorphic markers (such as those disclosed in co-pending PCT application WO 96/06583) in diagnostic assays for the likely presence of the HH gene mutation in an individual. For example, any of the markers defined by the polymorphic sites of Table 1 can be used in diagnostic assays in combination with 24d1 or 24d2, or at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HH allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table II, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HH gene mutation 24d1. Thus, for example, the likelihood of any

affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HH gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HH gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HH gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HH alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 1 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 1, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 1 or Figure 2 or its complement for amplification of a polymorphic site of Table 1.

Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 1 or Figure 2, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465 of Figure 1.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid

molecules comprising about 100 consecutive bases to about 235 KB substantially identical to the sequence of Figure 1 or Figure 2, wherein the DNA molecule comprises at least one polymorphic site of Table 1. Such isolated DNA sequences are useful as primers, probes, or as the component of a kit in diagnostic assays for detecting the likely presence of the HH gene mutation in an individual.

C. Nucleic Acid Based Screening

Individuals carrying polymorphic alleles of the invention may be detected at either the DNA, the RNA, or the protein level using a variety of techniques that are well known in the art. The genomic DNA used for the diagnosis may be obtained from body cells, such as those present in peripheral blood, urine, saliva, bucca, surgical specimen, and autopsy specimens. The DNA may be used directly or may be amplified enzymatically *in vitro* through use of PCR (Saiki et al. Science 239:487-491 (1988)) or other *in vitro* amplification methods such as the ligase chain reaction (LCR) (Wu and Wallace Genomics 4:560-569 (1989)), strand displacement amplification (SDA) (Walker et al. Proc. Natl. Acad. Sci. U.S.A. 89:392-396 (1992)), self-sustained sequence replication (3SR) (Fahy et al. PCR Methods Appl. 1:25-33 (1992)), prior to mutation analysis. The methodology for preparing nucleic acids in a form that is suitable for mutation detection is well known in the art.

The detection of polymorphisms in specific DNA sequences, such as in the region of the HH gene, can be accomplished by a variety of methods including, but not limited to, restriction-fragment-length-polymorphism detection based on allele-specific restriction-endonuclease cleavage (Kan and Dozy Lancet ii:910-912 (1978)), hybridization with allele-specific oligonucleotide probes (Wallace et al. Nucl Acids Res 6:3543-3557 (1978)), including immobilized oligonucleotides (Saiki et al. Proc. Natl. Acad. Sci. U.S.A. 86:6230-6234 (1989)) or oligonucleotide arrays (Maskos and Southern Nucl Acids Res 21:2269-2270 (1993)), allele-specific PCR (Newton et al. Nucl Acids Res 17:2503-2516 (1989)),

mismatch-repair detection (MRD) (Faham and Cox Genome Res 5:474-482 (1995)), binding of MutS protein (Wagner et al. Nucl Acids Res 23:3944-3948 (1995), denaturing-gradient gel electrophoresis (DGGE) (Fisher and Lerman et al. Proc. Natl. Acad. Sci. U.S.A. 80:1579-1583 (1983)), single-strand-conformation-polymorphism detection (Orita et al. Genomics 5:874-879 (1983)), RNAase cleavage at mismatched base-pairs (Myers et al. Science 230:1242 (1985)), chemical (Cotton et al. Proc. Natl. Acad. Sci. U.S.A. 85:4397-4401 (1988)) or enzymatic (Youil et al. Proc. Natl. Acad. Sci. U.S.A. 92:87-91 (1995)) cleavage of heteroduplex DNA, methods based on allele specific primer extension (Syvänen et al. Genomics 8:684-692 (1990)), genetic bit analysis (GBA) (Nikiforov et al. Nucl Acids Res 22:4167-4175 (1994)), the oligonucleotide-ligation assay (OLA) (Landegren et al. Science 241:1077 (1988)), the allele-specific ligation chain reaction (LCR) (Barrany Proc. Natl. Acad. Sci. U.S.A. 88:189-193 (1991)), gap-LCR (Abravaya et al. Nucl Acids Res 23:675-682 (1995)), radioactive and/or fluorescent DNA sequencing using standard procedures well known in the art, and peptide nucleic acid (PNA) assays (Orum et al., Nucl. Acids Res. 21:5332-5356 (1993); Thiede et al., Nucl. Acids Res. 24:983-984 (1996)).

In addition to the genotypes defined by the polymorphisms of the invention, as described in co-pending PCT application WO 96/35802 published November 14, 1996, genotypes characterized by the presence of the alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98 (denoted 3321-1:197 therein); 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170 (denoted 4072-2:148 therein); 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associates with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed

by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof.

Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 1 or 2, or cDNA sequences derived therefrom, or may be synthesized.

Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

D. General Methods

The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.

Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, Molecular Cloning - a Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"

There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.

To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. Gene 25:263-269 (1983) and Sambrook et al.

For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 KB. The fragments are then separated by gradient centrifugation from undesired sizes and are constructed in bacteriophage lambda vectors. These vectors and phage are packaged *in vitro*, as described in Sambrook, et al. Recombinant phage are analyzed by plaque hybridization as described in Benton and Davis, Science 196:180-182 (1977). Colony hybridization is carried out as generally described in M. Grunstein et al. Proc. Natl. Acad. Sci. USA. 72:3961-3965 (1975).

DNA of interest is identified in either cDNA or genomic libraries by its ability to hybridize with nucleic acid probes, for example on Southern blots, and these DNA regions are isolated by standard methods familiar to those of skill in the art. See Sambrook, et al.

In PCR techniques, oligonucleotide primers complementary to the two 3' borders of the DNA region to be amplified are synthesized. The polymerase chain reaction is then carried out using the two primers. See PCR Protocols: a Guide to Methods and Applications (Innis, M, Gelfand, D., Sninsky, J. and White, T., eds.), Academic Press, San Diego (1990). Primers can be selected to amplify the entire regions

encoding a full-length sequence of interest or to amplify smaller DNA segments as desired.

PCR can be used in a variety of protocols to isolate cDNA's encoding a sequence of interest. In these protocols, appropriate primers and probes for amplifying DNA encoding a sequence of interest are generated from analysis of the DNA sequences listed herein. Once such regions are PCR-amplified, they can be sequenced and oligonucleotide probes can be prepared from sequence obtained.

Oligonucleotides for use as primers or probes are chemically synthesized according to the solid phase phosphoramidite triester method first described by Beaucage, S.L. and Carruthers, M.H., Tetrahedron Lett., 22(20):1859-1862 (1981) using an automated synthesizer, as described in Needham-VanDevanter, D.R., et al., Nucleic Acids Res. 12:6159-6168 (1984). Purification of oligonucleotides is by either native acrylamide gel electrophoresis or by anion-exchange HPLC as described in Pearson, J.D. and Regnier, F.E., J. Chrom., 255:137-149 (1983). The sequence of the synthetic oligonucleotide can be verified using the chemical degradation method of Maxam, A.M. and Gilbert, W., in Grossman, L. and Moldave, D., eds. Academic Press, New York, Methods in Enzymology 65:499-560 (1980).

E. Expression

Once DNA encoding a sequence of interest is isolated and cloned, one can express the encoded proteins in a variety of recombinantly engineered cells. It is expected that those of skill in the art are knowledgeable in the numerous expression systems available for expression of DNA encoding a sequence of interest. No attempt to describe in detail the various methods known for the expression of proteins in prokaryotes or eukaryotes is made here.

In brief summary, the expression of natural or synthetic nucleic acids encoding a sequence of interest will typically be achieved by operably linking the DNA or cDNA to a promoter (which is either constitutive or inducible), followed by incorporation into an expression vector. The vectors can

be suitable for replication and integration in either prokaryotes or eukaryotes. Typical expression vectors contain transcription and translation terminators, initiation sequences, and promoters useful for regulation of the expression of polynucleotide sequence of interest. To obtain high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, *i.e.*, shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

1. Expression in Prokaryotes

A variety of procaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., J. Bacteriol. 158:1018-1024 (1984) and the leftward promoter of phage lambda (λ) as described by Herskowitz, I. and Hagen, D., Ann. Rev. Genet. 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

2. Expression in Eukaryotes

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., et al., Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, et al., Gene 8:17-24 (1979); Broach, et al., Gene 8:121-133 (1979)).

Two procedures are used in transforming yeast cells. In one case, yeast cells are first converted into protoplasts using zymolyase, lyticase or glucanase, followed by addition of DNA and polyethylene glycol (PEG). The PEG-treated protoplasts are then regenerated in a 3% agar medium under

selective conditions. Details of this procedure are given in the papers by J.D. Beggs, Nature (London) 275:104-109 (1978); and Hinnen, a., et al., Proc. Natl. Acad. Sci. U.S.A. 75:1929-1933 (1978). The second procedure does not involve
5 removal of the cell wall. Instead the cells are treated with lithium chloride or acetate and PEG and put on selective plates (Ito, H., et al., J. Bact. 153:163-168 (1983)).

The proteins of the invention, once expressed, can be isolated from yeast by lysing the cells and applying
10 standard protein isolation techniques to the lysates. The monitoring of the purification process can be accomplished by using Western blot techniques or radioimmunoassay of other standard immunoassay techniques.

The sequences encoding the proteins of the invention
15 can also be ligated to various expression vectors for use in transforming cell cultures of, for instance, mammalian, insect, bird or fish origin. Illustrative of cell cultures useful for the production of the polypeptides are mammalian cells. Mammalian cell systems often will be in the form of
20 monolayers of cells although mammalian cell suspensions may also be used. A number of suitable host cell lines capable of expressing intact proteins have been developed in the art, and include the HEK293, BHK21, and CHO cell lines, and various human cells such as COS cell lines, HeLa cells, myeloma cell
25 lines, Jurkat cells, etc. Expression vectors for these cells can include expression control sequences, such as an origin of replication, a promoter (e.g., the CMV promoter, a HSV *tk* promoter or *pgk* (phosphoglycerate kinase) promoter), an enhancer (Queen et al. Immunol. Rev. 89:49 (1986)), and
30 necessary processing information sites, such as ribosome binding sites, RNA splice sites, polyadenylation sites (e.g., an SV40 large T Ag poly a addition site), and transcriptional terminator sequences. Other animal cells useful for
35 production of ATP-sensitive potassium channel proteins are available, for instance, from the American Type Culture Collection Catalogue of Cell Lines and Hybridomas (7th edition, (1992)).

Appropriate vectors for expressing the proteins of the invention in insect cells are usually derived from the SF9 baculovirus. Suitable insect cell lines include mosquito larvae, silkworm, armyworm, moth and *Drosophila* cell lines such as a Schneider cell line (See Schneider J. Embryol. Exp. Morphol. 27:353-365 (1987)).

As indicated above, the vector, e.g., a plasmid, which is used to transform the host cell, preferably contains DNA sequences to initiate transcription and sequences to control the translation of the protein. These sequences are referred to as expression control sequences.

As with yeast, when higher animal host cells are employed, polyadenylation or transcription terminator sequences from known mammalian genes need to be incorporated into the vector. An example of a terminator sequence is the polyadenylation sequence from the bovine growth hormone gene. Sequences for accurate splicing of the transcript may also be included. An example of a splicing sequence is the VP1 intron from SV40 (Sprague, J. et al., J. Virol. 45: 773-781 (1983)).

Additionally, gene sequences to control replication in the host cell may be incorporated into the vector such as those found in bovine papilloma virus type-vectors. Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include: calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

The transformed cells are cultured by means well known in the art. Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977). The expressed polypeptides are isolated from cells

grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

5 D. Purification

The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly expressed or expressed as a fusion protein. The
10 protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

The polypeptides of this invention may be purified
15 to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunopurification methods, and others. See, for instance, R. Scopes, Protein Purification: Principles and Practice, Springer-Verlag: New
20 York (1982), incorporated herein by reference. For example, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The
25 proteins may then be further purified by standard protein chemistry techniques as described above.

F. Antibodies

As mentioned above, antibodies can also be used for
30 the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications,
35 targeting of affected tissues.

Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide

products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid.

In connection with synthetic and semi-synthetic antibodies, such terms are intended to cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-mouse, and the like), hybrids, antibodies having plural specificities, fully synthetic antibody-like molecules, and the like.

This invention also embraces diagnostic kits for detecting DNA or RNA comprising a polymorphism of Table 1 in tissue or blood samples which comprise nucleic acid probes as described herein and instructional material. The kit may also contain additional components such as labeled compounds, as described herein, for identification of duplexed nucleic acids.

The following examples are provided to illustrate the invention but not to limit its scope. Other variants of the invention will be readily apparent to one of ordinary skill in the art and are encompassed by the appended claims.

EXPERIMENTAL EXAMPLES

I. Sequencing of 235 KB from a Homozygous Ancestral (Affected) Individual

In these studies the entire genomic sequence was determined from an HH affected individual for a region corresponding to a 235,033 bp region surrounding the HH gene between the flanking markers D6S2238 and D6S2241. The sequence was derived from a human lymphoblastoid cell line, HC14, that is homozygous for the ancestral HH mutation and

region. The sequence from the ancestral chromosome (Figure 2) was compared to the sequence of the region in an unaffected individual disclosed in copending U.S.S.N. 08/724,394 (a portion of which is provided in Figure 1) to identify polymorphic sites. A subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

A. Cosmid Library Screening

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA). Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 KB throughout the 235 KB region. The DNA was labeled by incorporation of ³²P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 KB region.

B. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 KB region were prepped with the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and

cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5a cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in KB)/average sequence read length (0.4 KB). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT.

C. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 KB clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 KB clones across the region. The plasmid 3 KB libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the 3 KB clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 KB clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 KB clone was assembled in conjunction with the end sequence information from all cosmid clones in the region.

In some regions, the coverage of the genomic sequence by cosmids was incomplete. Any gaps in the sequence were filled by using standard PCR techniques to amplify

genomic DNA in those regions and standard ABI dye terminator chemistry to sequence the amplification products.

D. Identification of Polymorphic Sites

The assembled sequence of the cosmid clones in connection with the PCR amplified genomic DNA (Figure 2) was compared to the genomic sequence of the unaffected individual (Figure 1) using the FASTA algorithm. Numeric values were assigned to the sequenced regions of 1 to 235,303, wherein base 1 refers to the first C in the CA repeat of D6S2238 and base 235,303 is the last T in the GT repeat of D6S2241 of the unaffected sequence (Figure 1). Table 1 lists the differences between the two compared sequences. Note that previously disclosed (Feder et al., Nature Genetics 13:399-408 (1996)) polymorphic sites D6S2238 (base 1), D6S2241 (base 235,032), 24d1 (base 41316), and D6S2239 (base 84841) are not included in the list of new polymorphisms, although they are provided for reference in a footnote to the Table and were observed in the ancestral sequence. In the Table, a single base change such as C-T refers to a C in the unaffected sequence at the indicated base position that occurred as a T in the corresponding position in the affected sequence. Similarly, an insertion of one or more bases, such as TTT in the affected sequence, is represented as "TTT INS" between the indicated bases of the unaffected sequence. A deletion of one or more bases occurring in the affected sequence, such as AAA DEL, is represented as the deletion of the indicated bases in the unaffected sequence.

II. Characterization of Rare Polymorphisms

In this study about 100 of the polymorphisms of Table 1 were arbitrarily chosen for further characterization. Allele frequencies in the general population were estimated by OLA analysis using a population of random DNAs (the "CEPH" collection, J. Dausset et al., Genomics 6(3):575-577 (1990)). These results are provided in Table 2.

One single base pair difference, occurring at base 35983 and designated C182.1G7T/C (an A to G change on the

opposite strand) was present in the ancestral chromosome and rare in the random DNAs. This change occurred in a noncoding region of the hemochromatosis gene near exon 7 approximately 5.3KB from the 24d1 (Cys282Tyr) mutation. OLA was used to genotype 90 hemochromatosis patients for the C182.1G7T/C base pair change. The frequency for C occurring at this position in the patients was 79.4% as compared to 5% in the random DNAs. Eighty-five of the 90 patients assayed contained identical 24d1 and C182.1G7T/C genotypes. Four of the remaining 5 patients were homozygous at 24d1 and heterozygous at C182.1G7T/C; one was heterozygous at 24d1 and homozygous at C182.1G7T/C. The primers used for this analysis were as follows.

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAAGTTCTAC -3'
 182.1G7.R 5'-TTGCATTGTGGTGAAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

182.1G7.C 5' (b) CTGAGTAATTGTTTAAGGTGC -3'
 182.1G7.T 5' (b) CTGAGTAATTGTTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5' (p) AGAAGAGATAGATATGGTGG -3'

A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG-3'

1951H5.3R 5'-CAACTGAATATGCAGAAAAAAGTACACC-3'

5

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5' (b)AGTAGCTGGGACTCACGGTGT-3'

1957H5.3.5 5' (b)AGTAGCTGGGACTCACGGTGC-3'

10

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5' (p)GCGCCACCACTCCCAGCTCAT-3'

15

These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2.

All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

20

WHAT IS CLAIMED IS:

1 1. An oligonucleotide comprising at least 8 to
2 about 100 consecutive bases from the sequence of Figure 1 or
3 Figure 2, or the complement of the sequence, wherein the at
4 least 8 to about 100 consecutive bases includes at least one
5 polymorphic site of Table 1.

1 2. The oligonucleotide of claim 1, wherein the
2 polymorphic site is at base 61465 of Figure 1.

1 3. The oligonucleotide of claim 1, wherein the
2 polymorphic site is at base 35983 of Figure 1.

1 4. An oligonucleotide pair selected from the
2 sequence of Figure 1 or Figure 2 or its complement for
3 amplification of a polymorphic site of Table 1.

1 5. An isolated nucleic acid molecule comprising
2 about 100 consecutive bases to about 235 KB substantially
3 identical to the sequence of Figure 1 or Figure 2, wherein the
4 DNA molecule comprises at least one polymorphic site of Table
5 1.

1 6. The isolated nucleic acid molecule of claim 5,
2 wherein the polymorphic site is at base 61465 of Figure 1.

1 7. The isolated nucleic acid molecule of claim 5,
2 wherein the polymorphic site is at base 35983 of Figure 1.

1 8. The isolated nucleic acid molecule of claim 5,
2 wherein the nucleic acid is cDNA.

1 9. The isolated nucleic acid molecule of claim 5,
2 wherein the nucleic acid is RNA.

1 10. The isolated nucleic acid molecule of claim 5,
2 wherein the nucleic acid is genomic DNA.

11. The isolated nucleic acid molecule of claim 5, wherein the sequence of the nucleic acid molecule is identical to that of Figure 2.

12. A polypeptide encoded by the nucleic acid molecule of claim 5.

13. An antibody which specifically recognizes the polypeptide of claim 12.

14. A method to determine the presence or absence of the common hereditary hemochromatosis (HH) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and
assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,

wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HH gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HH gene mutation in the genome of the individual.

15. The method of claim 14, wherein the method further comprises assessing the RNA or DNA for the presence of 24d1 and/or 24d2.

16. The method of claim 14, wherein the method further comprises assessing the RNA or DNA for the presence of at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; or D6S1001:180.

1 17. The method of claim 14, wherein the haplotype
2 comprises at least two polymorphic sites of Table 1.

1 18. The method of claim 17, wherein one of the at
2 least two polymorphic sites of Table 1 is at base 35983 or
3 61465 of Figure 1.

1 19. The method of claim 13, wherein the haplotype
2 comprises at least three polymorphic sites of Table 1.

1 20. A method to determine the presence or absence
2 of the common hereditary hemochromatosis (HH) gene mutation in
3 an individual comprising:

4 providing DNA or RNA from the individual; and
5 assessing the DNA or RNA for the presence or
6 absence of a genotype defined by a polymorphic allele of Table
7 1,

8 wherein, as a result, the absence of a genotype
9 defined by a polymorphic allele of Table 1 indicates the
10 likely absence of the HH gene mutation in the genome of the
11 individual and the presence of the genotype indicates the
12 likely presence of the HH gene mutation in the genome of the
13 individual.

1 21. The method of claim 20, wherein the polymorphic
2 allele occurs in less than about 50% of a random population of
3 individuals.

1 22. The method of claim 20, wherein the polymorphic
2 allele occurs in less than about 25% of a random population of
3 individuals.

1 23. The method of claim 20, wherein the polymorphic
2 allele occurs in less than about 5% of a random population of
3 individuals.

1 24. The method of claim 20, wherein the genotype is
2 C182.1G7C.

1 25. The method of claim 20, wherein the genotype is
2 C195.1H5T.

1 26. A kit comprising one or more oligonucleotides
2 of claim 1.

1 27. A kit comprising at least one oligonucleotide
2 pair of claim 4.

1 28. A culture of lymphoblastoid cells having the
2 designation HC14.

2025-06-06 10:00:00

5

Polymorphic sites in the region surrounding the HH gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis.

Table 1. Polymorphic Sites in the HH Region *

BASE LOCATION	DIFFERENCE	BASE LOCATION	DIFFERENCE
35-36	AC DEL	20463	C-A
841	T-C	20841	A-T
2662-2663	TT DEL	21059	A-T
3767	T-C	21117	A-G
3829	C-G	21837	A-C
4925-4928	TAAA DEL	22293	A-C
5691	C-T	22786	C-A
5839	T-C	23009	G-A
6011	G-A	24143	T-A
6047	C-G	26175	G-C
6231	G-A	26667	C-A
6643	A DEL	26994	T-C
6698	T-C	27838	G-T
7186	T-C	27861	T DEL
7273	G-A	28132	G-A
7545-7558	TCACACACCGATTGG DEL	29100	G-A
7672	G DEL	29454-29457	TTTT DEL
7933	T-C	29787	T-G
8746	T-G	29825	A-C
9115	G-A	30009	T-C
9823	G-A	30177	A-G
10027	G-A	30400	A-G
10214	C-T	31059	T-A
10828	A-G	31280	C-T
10918	C-G	31749	C-T
10955	A-G	32040	C-G
11524	C-A	32556-32559	TGTG DEL
11674	A-G	33017	T-G
11955	T-C	33026	T DEL
12173-12175	TTT DEL	34434	C-T
13304	G-A	35179	A-C
13455	G-A	35695	G-A
14416-14417	A INS	35702	G-A
14998	C-T	35983	A-G
15564	T-C	37411	A-G
15887	A-G	38526	C-T
15904-15919	CCAACTGATCTTTGA DEL	40431	C-A
16019	T DEL	42054-42055	TT DEL
16211	A-T	43783-43784	TTTT INS
17461	A-G	45120	C DEL
19755	G-A	45567	A-C
19949	C-T	46601	A-T
20085	C-T	47255	C-G
20366-20367	A INS		

Table 1. Polymorphic Sites in the HH Region *

BASE LOCATION	DIFFERENCE	BASE LOCATION	DIFFERENCE
47758	C-A	64788	A-G
47994	G-C	64962	G-A
48440	G-A	65891	C-T
48650	T-G	66675	G-C
48680	A-G	67186-67187	ATT INS
50240	C-T	67746-67747	TT INS
50553	G-A	68259	T-C
50586	G-T	68836	T-C
51322	G-C	68976	C-G
51747	A-G	72508	T-G
52474	C-G	72688	C-G
52733	C-A	75323-75324	T INS
52875	G-A	75887	G-C
53631-53637	TTTTTTT DEL	77519	T-C
53707	G-A	77749	G-A
54819	A-G	77908	T-C
55913	T-C	78385	C-G
56225	A-C	78592-78593	AG INS
56510	T-C	80189	T-G
56566	G-A	80279	T DEL
56618	A-T	80989-80990	A INS
57815	A-G	81193	T-C
58011	T DEL	81273	A DEL
58247-58248	T INS	82166	G-A
58926	C-G	83847	T DEL
59406	C-G	84161-84162	CA-GG
59422	G-C	84533	A-G
60221-60222	A INS	84638	T-G
60656-60657	CA DEL	85526	T-G
61162	G-A	85705	G-T
61465	G-A	86984	T-C
61607	A DEL	87655	T-C
61653	T-C	87713	A-C
61794-61795	T INS	87892	C-T
62061	G-C	88192	T DEL
62362	T-G	88528	A-G
62732	C-G	89645	A-T
63364	G-A	89728	A-G
63430-63431	GT INS	90088	T-C
63754	C-T	91193-91194	2209bp INS
63785	A-C	91373	T-C
63870-63871	A INS		

Table 1. Polymorphic Sites in the HH Region *

BASE LOCATION	DIFFERENCE	BASE LOCATION	DIFFERENCE
91433-91434	A INS	133572	A-C
91747	G-A	134064	T-G
93625	T DEL	136999	G-A
95116-95117	T INS	137784	C-T
96315	G-A	138903	G-A
97981	A-G	139159-139160	A INS
98351	T DEL	140359	G-A
99249	C-T	140898	C-T
100094-100095	T INS	141313	C DEL
100647-100648	TTC INS	141343	T-C
100951	C-T	142148	T-C
101610	C-G	142178	C-A
102589	C-T	142433-142434	ATAGA INS
103076-103077	TATATATATATATA INS	143783	C-T
103747	T-C	144090	C-T
105638	A-C	144220-144221	A INS
107024	C-T	144725	A-C
107322	C-T	145732-145733	AAAAAAAAAAAAAAA INS
107858	C-G	147016-147017	CG DEL
109019	A DEL	147021	G-T
109579	T DEL	147536	T-G
110021	C-A	148936	T-A
111251	C-A	149061	T-C
111425	G-A	154341	A-T
112644	T-A	154588	G-A
113001	G-C	155464	G-A
113130	C-T	158574	C-G
114026	G-A	160007	C-T
114250	A DEL	164348	A-T
115217	C-G	164499	C-G
117995	G-A	166677-166678	AAAG INS
118874	A-G	167389	G-A
119470	T-C	168506-168507	AGGATGGTCT INS
119646	G-T	168515	T-C
120853	C-T	169413-169414	AA INS
121582	G-A	170300-170301	TTGTTGTTGTTG INS
123576	A-C	170491	G-A
125581	C-T	173428	T-C
125970	G-T	173642	G-A
126197	A-G	173948	T-G
126672	A DEL	175330	T-C
126672	G-C	175836	T-C
128220-128221	A INS	176200	G-C
132569	C-T	176222	T-C

Table 1. Polymorphic Sites in the HH Region *

BASE LOCATION	DIFFERENCE	BASE LOCATION	DIFFERENCE
176524	A-T	193499	C-T
176684	G-A	193738	C-G
176815	T-C	193984-193985	ACACACAC INS
177049	T-C	194064	C-G
177065	G-T	194504	A DEL
178285	T-C	194734	G-A
178551-178552	CTTTTTTTTTTTT INS	194890	A-C
179114-179115	A INS	195404	G-A
179260	C-G	195693	A-T
179281	C-G	196205	G-A
180023	G-C	197424	C-T
180430	T-C	197513	C-T
180773	T-C	197670	G-A
180824	T-C	198055	C-A
181097	C-T	198401	C-T
181183	A-T	198692	A-G
182351	C-T	198780	T DEL
183197	G-A	199030	T-G
183623	A-T	199933	C-T
183653	G-T	200027	G-A
183657	T-G	200439	T-A
183795-183796	A INS	200452	A-G
184060	G-A	200472-200483	AATAATAATAAT DEL
184993	G-A	200559	A-T
185918	A-G	200745	A-G
186036	T-C	200919	T-A
186506-186507	TAAC INS	201816	C-T
186561-186568	TATTTATT DEL	201861-201862	42bp INS
186690	G DEL	202662	T-C
186751	T-A	202880	T-C
187221	A-G	204341	C-T
187260	A-G	204768	A-T
187444-187447	CTCT DEL	205284	T-G
187831-187832	C INS	207400	C-A
188638	G-A	208634	T-C
188642	C-T	208718	T DEL
189246	T-C	208862	A-C
190340	A-C	209419-209420	TT DEL
190354	A-G	209802	G-A
190762	A-G	209944	C-G
191260	G-T	210299	A-G
193018-193019	AGAT INS	211142	G-A
193147	T-G	212072	G-A
193196-193197	C INS	212146	T-C

Table 1. Polymorphic Sites in the HH Region *

BASE LOCATION	DIFFERENCE	BASE LOCATION	DIFFERENCE
212379	G-A	231226	A-G
212637-212639	TCT DEL	231447	G-A
212696	T-C	231835	A-G
213042	T-A	232400-232402	AAA DEL
214192	A-G	232402-232403	G INS
214529-214530	TTTTTTTTTTT INS	232515	T-C
214549	T-C	232703	G-T
214795	C-T	232750	A-G
214908	T-G		
214977	A-G		
215769	C-T		
215947	C-A		
216232	A-G		
217478	G-A		
219052	T-C		
219082-219083	ATATATATATATATATAT INS		
219314	C-A		
219327	G-A		
219560	C-T		
219660	C-T		
219889	G-A		
220198	G-T		
220384	G-A		
220451-220452	CAAAAA INS		
221363	G-A		
221645	G-A		
222119	T-C		
222358	A-G		
222367	A-C		
222686	A-G		
222959	T-C		
223270-223271	TT DEL		
223283	T-C		
224964	T-C		
225232	A-C		
225366-225367	TTTT INS		
225416	G-C		
225486	T-C		
226088	A-G		
228421	A-G		
230047	G-A		
230109	G-C		
230376	C-G		
230394	A-G		
* D6S2238 occurs at base 1. 24d1 occurs at base 41316. D6S2239 occurs at base 84841. D6S2241 occurs at base 235032			

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
232703	53%	47%
231835	53%	47%
230394	85%	15%
230376	25%	75%
230109	53%	47%
225486	45%	55%
225416	75%	25%
220198	43%	57%
219660	58%	42%
219560	53%	47%
214977	65%	35%
214908	50%	50%
214795	24%	76%
214549	53%	47%
214192	65%	35%
210299	53%	47%
208862	80%	20%
208634	48%	52%
207400	25%	75%
205284	50%	50%
204341	53%	47%
202880	58%	42%
202662	98%	2%
200027	25%	75%
199030	58%	42%
198692	55%	45%
198401	55%	45%
198055	55%	45%
195693	60%	40%
195404	25%	75%
194890	55%	45%
175330	53%	47%
173948	83%	17%
173642	55%	45%
173428	80%	20%
168515	80%	20%
160007	18%	82%
149061	58%	42%
148936	82%	18%
147536	100%	0%
147021	46%	54%
141343	55%	45%

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
140359	55%	45%
138903	55%	45%
132569	81%	19%
125581	18%	82%
121582	80%	20%
120853	18%	82%
118874	85%	15%
115217	50%	50%
113130	40%	60%
113001	48%	52%
107858	48%	52%
103747	50%	50%
96315	25%	75%
91194	80%	20%
90088	75%	25%
89728	50%	50%
89645	50%	50%
88528	63%	37%
87892	75%	25%
87713	60%	40%
87655	50%	50%
86984	79%	21%
85705	50%	50%
85526	50%	50%
84638	50%	50%
84533	50%	50%
82166	78%	22%
81193	58%	42%
80189	50%	50%
78385	80%	20%
77908	88%	12%
68976	50%	50%
68259	51%	49%
66675	80%	20%
62732	50%	50%
62362	40%	60%
61653	48%	52%
61465	5%	95%
61162	60%	40%
53707	100%	0%
52875	50%	50%
52733	74%	26%

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
52474	47%	53%
50586	50%	50%
50553	50%	50%
50240	50%	50%
48680	53%	47%
48650	63%	37%
48440	50%	50%
47255	50%	50%
46601	53%	47%
45567	49%	51%
41316	5%	95%
40431	20%	80%
38526	23%	77%
37411	70%	30%
35983	5%	95%

1 CACACACACA CACACACACA CACACACACA CACACAAATG AGGTATATAA AGGGTCTCCT
 61 AAAATGTCAT CTGATATTTG TTATTTTCATA TTCTCAGATT TTTAATCCAT TTAGGTAGGT
 121 CTATTTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC
 181 CAGAAGAAAA ATCAAACAGG CATTTTCAGAG ATTGAGGCCA AGAAGTTAAA TGTCTTAAAT
 241 GGGCAGAGCT TAGCTGCTTG ATGTGAAAAG AGACCAGCGT GGCTGGAACA GCAAAGGAGA
 301 ACAGCAGAAG AGGTGAACAG AGGCCAGAGA TGGTCACTGA GTGGGCCCTT AAGTCATGGT
 361 AAGGAGTATG GAGAATGAAT TATTGCATGT ATTGAATATG TAGGTGACGT GACTCACAGA
 421 TACTTTGGAT TTGTAGAGAT GAAGGAAATG TAGCAAGTGA CACTCTTAGA ATGTTGATTT
 481 GAGTAAATGG TAGTGTCACT TATTGAACTG GGGAGAACTG GAAGGGATAA CAGGCTTAAG
 541 GAGCACGTTT ATTCTGTGT CTTGGAAGTG TTTAGGGTGA AAGACCTATT AGAGTTCTAA
 601 ATGGAGATGT CAAGTGAAAA TGTGGCTACA CACATTTGCA TTTTCAGAAAA AAGGTCAGGC
 661 TGGAGATGTA AAATTGGAAG TTTACTGCAT ATAGATAGTC TTTGGAACCG TAGTATTGAT
 721 GAAGCCATTA ATGAGACAGA ACAAAGACTA GGGACCAGAG CCAAGCTCCA AGTTTCTAAA
 781 ATTTAGAGGA TAGTATAGTC TGGTCATTTT GAGGTGAATA CTTAATAACA GAACAATTTG
 841 TTGAAGTGTA AATTTAGAGC CCTACACTTT TAGCTCTGAC TATTAACGAA TACAGGAAAG
 901 AATGGATATG GTTATCTGCC TGGTGTCTGT GAAATAATTT AAGCCAGGAA GAGATCCTCA
 961 CCAGAACTG ACTATGCTGG CAACTTGGAT CTTAGATTTT CAGCCTGCAG AATTGTTAGA
 1021 AAATAAATGT CTATCGTTTA AGCCACCAGT CTGTAGTATT TTGTTATGGC AGTCCAAGCT
 1081 GACTAAGTTT TGGTACCCAG GCGTGGGATG CTGCAACAAC AAATACCTAA ACATGGGGAA
 1141 GTGGCTTTGG AAATTGGTGA TGGGTAAAGG CTGGAAGAGT TTGAGGTTCA TACTAGAAAA
 1201 AGCCAATTGT GAAGGGACTA TTGAAAGAAA TATGGACATT AAAGGCAATT CTGGCAAAGG
 1261 CTCAGAAAGG AAGAGAGCTG GACAGAAAGC TTCCATTTTC ATAGAACTT AGATTTATAA
 1321 CGATCATGGA TAGAATATTA AATATGCTGG TTAAAATATG GACTTTAGGC CAGGCGTGGT
 1381 GGCTCACGCC TGTAATCTCA GCACTTTGGG AGGCTGAGGG CACAGATCAC GAGGTCGGGA
 1441 GTTTGAGACC AGCCTGGCCA ATATGGCGAA ACCCTGTCTC TACTAAAAAT AAAAAATTA
 1501 GCTGGGCATG GTGATGTGCT TCTGTGTCTC CAGCTACTCG GGAGGCTGAG GCTGAAGAAT
 1561 CGCTTAAACC CGGGGGGTGG AGGTTGCAGT GACCCAAGAT CACACCACTG CACTCCAGCC
 1621 TGGGATACAG AGCAGGACTC CACTCCCCC GCCACACACA CACAAAAAAT ATATATATAT
 1681 GGACATTAAT GTCACTCTT GTGAGGTCTC AGATGAAAAT GAGGGACAGG TTATTGGAAA
 1741 CTGTAGAAAT CACTGTCTT GTTACAATGT GTCAAGAACT TGGCTGAATT ACGCTGTAGT
 1801 GTTTACTGGA AAGAACTTAT AAGCAGTAAA ACTGGATATT TACCAGAAGA GATGTCTAAG
 1861 CAAAGTATTG AAGGTGTGAT TTAGGTCTCT CTTACTGCTT AAAGTGAAAT GTGAGAGGAA
 1921 AGAGCCGAAA TAAAGAAGGA ATTTTAAAGC AAAACACAAT CAGAACTTGG AGATTTGGGA
 1981 TAGATTTCTC AATCTATATT GTAAAAATTG AGAAAGTTT TCTTGAAGAG GTATGGTTGA
 2041 ACAATGTTTT CTTTTTCTTT TTTTTTCTTG GTTTTATTTT TATTTTTATG TTTTTTGAGA
 2101 CAGGCTCTGG CTATGTCATC CAGGCTGGAG TGCAGTGGCA CAATCTCAGT TCAGTGCAAC
 2161 CTTTGCCTTC AGGCTCAAGC AATCCTCCCA CCTCAGCCTC CTAAGTAGCT GGGACTACAT
 2221 GTATGCACCA CCACACCCTG GCTAATTTTT TGTGTTGTT TATAGAGATG GGGTTTTGAC
 2281 ATGTTGCCTA GGCTGGTCTC TAACCTCTGA GCTCAAGTGA TCTGCCCTCC TCAGTCTCCC
 2341 AAAGTGTTGG GATTACAGGC GTGAAACACT GAGCCTAGCC TGAACAACCA TTTGATAAAG
 2401 AGATAATGGG TGTGACCCAA GGATTTAATC AGCCATCTCA GCAGAAGCCA GGAAGAGAGA
 2461 TGGGATTATT CCAGCAGAGA CACTGCCAAT TTAAACTAAC GTAGGCAGAG AAAACAGAAA
 2521 GGAACAAAGG AAGGTTGTCT ACTTTTTGAA TTCTATAGAA CAGGATCATA GAGCTACCTG
 2581 GCTGTCAATG TGTACTATTC TTTAAGAAAA GGAAAGACTG ACCCACCAAA GGCAACTTAC
 2641 AAGATGACTA GGGCTGACTC TTTTGTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
 2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGGATTC
 2761 TCTTGCCTTA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCAGT
 2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTTCA
 2881 CTATGTTGGC CAGGCTAGTT TGGAACCTCT GACCTCCAGT GATCCATTCT CATTTGGCTC
 2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
 3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
 3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC

Figure 1 (Page 1 of 73)

```

3121 CCACCAAACCT GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT
3241 TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCTTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481 AGATGACACT TTGAACTTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTTT TTTTTTTTTT AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAATGGT CTCGATCTCT
3781 TGACCTTCGT ATCCGCCTGC CTTGGCTTCC CAAAGTGCTG GGATTACACG TGTGAGCCAC
3841 CATGCCCGGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGACTAAACT GTGTCCCCCA AAATTCATTT ATTTAAACCC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAATAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATACA AACACACAGT GAGATGGCAG
4141 CCATCTGTTA GCCAGGAACA GATTCCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAAACGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAA
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAACCTT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381 AATTTAGCAT GCTTCTTCTT TCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CCTTTACTCT GCCCAAACCTA CAACTCAAAC AAACAACCTG AATATAATAA
4501 CATCCAATGA AGTTCCTGACA TTTCTTCAAC ATGAGTACAG TAATTCATG CCAGAGAATT
4561 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCCTGTC TCTACTATAA ATATAAAAAA TAGCTGGGTG TGGTGGTGCA
4801 TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTGCAATG AGTGGAAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATAAATAC ATAAATAGTA TTTATCAGTT TATCAATAAT ATAGTTTTCT TTTCTAGGTG
4981 TAAATATAGG TAATGACTGT CTTTGTAGTAC ATTTTCTCAT GATGCTCCTC TTACTTGGTT
5041 TGGTACAATA TTAAGTATTG AAATAAATA GAGAATCCTG TCGCTACACA TGAGCACTTA
5101 TTCCATTTGC TCATCTCCAA TATGCACGGG AAATTTCTCA ATTGCTAATA ATCTTGTAAC
5161 ACACATGCAT TATATTCAAC AGGAATATAT AAATTTATAA TTATAATTTA GGATCAACAG
5221 ATGACAAACC TTTAGAAGGT TTGTATTTAA CCTTAAATA TAATTTTTTA AAAATGGTTT
5281 ATAAATTTTC TAATACTTTC TTTTTTGTGA CCTCAAGGGG AAAATATAAT TCTTATAAAA
5341 GTTCAAATGA TTTACAGAAT ACAAAAAGTG AATAGAGATG ATGAATGAAT TAAAGGAAAG
5401 GATATTGCTA CATAGATTTG GAAATTTAAA AAGGGAAATT ACGATTGTTG ATTTTGTGTT
5461 AAATGATCT GCTTTGTTCA AGATACCTTA TGTACCAAAA AATGATTTTA TCTCAGCCTC
5521 ATATCTCAGT AAATTCCTGA GACAACTTT AGTCCCTGGT GCCCAGGTGC CTTTGGTAAAT
5581 TGGGAGACCT CTAGGTTTAG CATCCTCATC CACTCGCCCC AATTTAAATA GTCCCTCCCCA
5641 GGGCCATTCA GGCAAGGGAG ATGAAAACCT GCTCAAGAGT TGGAATCCAA CTGAAGCTAC
5701 CGAAATTCAT TGCTCAATAG ATAATTTTCC CTGGAAGTAA CTAGGGCTTT TGAATATAAT
5761 AGTGGGCATT TCAAAGTAGA AGGTAAAGTA TTTTGGAGAT GAGGAGACAG GACAGAGCTA
5821 CGAGGAATGT CCTTTGCTTA GGGACTAGGC TCTTAGCAGT ACCTCTTAGG TAAGAAGCTG
5881 TTAACCTGGC CTTCTGTGT TTCTCTGAAG TCCCTTTGCT TTAGGGACTA GGCTCTTAGC
5941 AGTACCTCTT AGGTAAGAAC TGGTTAACTG ACACCTTCTA TGTGTCTGAA GCTCCCAGAA
6001 CAAACTGCCA GTGAAATTTG GATTTTTTGA ATATAGTTTC TTTTTTCTTG TTACTTTTTG
6061 TTTTGTGTT TTTTTTTGAG AGTCTCACTC TCACTGCAAC CTCCCCCTCC TATATTCAAG
6121 TGATTCTCTT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GGCGTGCAC AGCATGCCCCA
6181 GCTAATTTTT GTATTTTTTA GTAGAGATGG GGTGGGTTTT TTTTGGAGAC GGAGTTTCAC
6241 TTTGTCGCCC AGGCTGGAGT GCAGTGGCAC GATCTTGGCT CACTACAACC TCCACCTCCC
6301 GGGTTCAAG TGATTCTTCT GCCTCAGTCT CCTGAGTAGC TGGGACTACA GGCGCCTACA

```

Figure 1 (Page 2 of 73)

```

6361 GGTGAACACC GCCACACCTG ACTAATTTGT GTAGTTTTAT TAGAGATGGG GTTTCGCCAT
6421 GTTGGCCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TACCCACCTC AGCCTCCCCA
6481 AGTGCTGGGA TTACAGATGT GAGACACCAG ATCAGCCTCA GAAGACATTT TCTATTGGAA
6541 AGAGAAAACA CTATTAGCAA CCTATTAGTC TAATATTTAA TACTTAATGT CTTCCCTTAGT
6601 AATAAACCAA CTCTCTACAA CAAAGTGCTT CCTGGCTGCC TAAGTCATTG ATTCATTACAG
6661 TTCAACATTT TCTCAATGCC CAACAGCCAA GTGTCTCTTG TATGCCAAGT TCTATGCTGA
6721 TTATCAGTAT TTGAATAAGA GGGGGTCTAC ATCTTAAGTA CTGCTTAAGA TGAAAGCCTC
6781 TAGGTTAACA AACTTAACAC AATGTATCAT TCACTACTAA ATAGACCGAA TACAAAATCT
6841 TGTTATTGGA GCCCAGAGAG AAGAATTGAA ATTCAAGTTT TCTCTCTCTC CTTTTCTCAC
6901 TCACCACAAT AAGTCAGTTG CACCAAGTCT TGTAGCTCTT TACTGAGCCA TGTTTTTCACG
6961 TGTCCCTTTG TTTTATTTGC CACACCCTAA ATAAAAATTG TACTGGCTTT TTTTCCCTGG
7021 GTTTACAGTA TTAATACATT GTCAAGATTT ACCTCTTCGT GTAGATTCCC TGGGGAAAAT
7081 TACCTTTCCCT CCTTCCCTTA AATTCTTCAG AGGTTAGAAA GCCATTAGTA ACATTCTGGT
7141 ATGTGGACAA AGTTTACCCA TTATGTATGG ATGTTTTACT CTTTCTATTT TTCTGACAAT
7201 AATCTCTTAA GGAGGTGTGG TTATAGAATA GTCAGCTGTT ATAAGTACTG TTTTCTGGC
7261 CTTACAACCTT AAGTTCTTTA AGCTGTTTCT TAGTTTGCTC ATCTCAAAAT TCGGAATAAG
7321 GATAAAACCT ATCTCTTAGA TTGTTGGATT AAATGAATTA ACATACTGGA AGCTCATGAA
7381 ATGTGCCTGG CACACAGTAG TGCCTAATAA ACCATCTCTC TTATTCAGCC TGTTTTCTGA
7441 TTTCAGAATC TACACTTGCT GAGCCAGGTT CTTTTCATTT CAAGGTGAGC AAAAGCATAC
7501 AAGGAAGAGA TGGAGGTAGG AAGAGATTAA GCCCTAGGCC AAGGTCACAC ACCGATTGGG
7561 AGCTGGAATC AAAGGCAATT TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA
7621 TTCTAACCTT AGGATCGAAA TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAATCCGG
7681 TCTTCTCAGC CCAAGAGCCA TGTGAAACCA GACCTTCAAA TCTGATGATT CTCAGCCCAG
7741 CTGCCCATTA GAATCGTTGT AATTTAAAAA TACCCTCGGA AAATTCTAAT ATGTGGCTAT
7801 CAAAGGTGAT CATTTGCTTT TATGCCACTT TGTTTTTACC CAAATGGGAC ATCCAACCCT
7861 TTTCTTTTGA GAGTAGTTGT AGGGAAAGGA GGGGGTGGAG GGAGGGAAGA GCGGAAAAGG
7921 CTGGATCCGC CCTGAGCCGG TGTCAGTATC TGGGAAGTGG GAGGCGCGTC AGCAGTAAAC
7981 AGCTTCTGCT AGGATTATTA TCTCTCGCCA CACACTCGGA TTTGAAGCT CCAAACGAAA
8041 CAATGCAAAA CGCTTCAGTG GAGTTCCAGA AGCGTTAGAC TAAACGACTG GTTCTGTTTG
8101 GCCAGTCTGA GCAGCTGGGC GCAGATGCAT AGGCAAGACT TAGCCCGCCT AGACTTTTCT
8161 GCCCACTTAA TTCCGATCAA AGCAGAAACC GGCCGGGCGC GGTGGCTCAC GCCTGTAATC
8221 CCAGCACTTT GGTAGGCAGA GGCTGGCGGA TCACCTGAGG TCAGGAGTTC GAGACCAGCC
8281 CGGCTAACCT GGTGAAACTC CGTTTCTACT GGTGGCGGGC GCTTGTAATC CCATCTACTA
8341 GGGAGGCTGA GGCCGGAGAG TCGTCTGAAC CCGGGAGGCG GAGTTTGTAT GCAGTGAGCC
8401 GAGATCGCGC CACTGCATTC CAGCTTGGGC AACAGGAGCA AAACCTCCGT TCAAAAAGC
8461 AAGCAAACAA ACAAAAAAAT GCAGAAACCG AGATCCGGAA GAAAACCTCG GCGAGATTCA
8521 CAGAAATCCAG GAAAATAGGT CTCTAGAAAT TTGTCCATGG TCCCAGATCT CCATTTCTTG
8581 TGGGTGGGGC AGCTGTTACC AGATCCCTAG AAGCAAAGGT TTTTTTGGGG GACCGTGTCT
8641 CACTGTTGCC CAGGCTGGAG GGCAGTGGCA CGATCTCGGC TTAATAACAAC CTCCGCCTCC
8701 CAGGCTCAAG CGACTCTCCT GCGTCAGCTT CAAGAGTAGC TGGGATTACA AGGTATGTGC
8761 CACCACGCCC AACTTATTTT TTTATTTATT ATTTTATTTT AGTAGAGAGG TGTTTCACCA
8821 TGTGGCCAG GTTAGTGTG AAGTCGTGAC CTCAGGTGAT CAGCCCCCTC GGCCTCCCCA
8881 AGTGGTAGGA TTAGAGGGGT GAGCAGAAAG CAAAGGTTTT TGAGTGGCCA CAGGCCCCAC
8941 TCTATTTCCCT TTTCTGCCTG TAATGGCAAC CTAGACGCTT GAGCTTCTTA AAATAACAAGA
9001 GTAAGTTGCA TGTGAGGCAC CGTTCTACAT TAGGGACATT AGTCTGTTTT ACAGACACCT
9061 TTCAACTCCC TGGTTAACTT TTAGGTAATA TACTCTGCAC TTTAGCAGGA ATGGGACCTA
9121 TAACTCTCAC AGAATTAGGA AAGTGAGGCT GCCTACAGCC TAAATTGAGA AAAAAATAGA
9181 CGGGGGACTA GTCGGAGGAC CAAACAAGGT TACCAACACG TTAGAGTTTT GCCTTCAATT
9241 TACATTTTTTA AAGTAATCAC AACGAAGTGT TTAGATCACG AGGCATCCCT GCATGTAAAC
9301 TGTTAGGCAC TAACTATGGT CGATCTTACA AAGCATTAAC TAGAATATTT CTTTAGAGTA
9361 TGATAGTACG TAACTGACCT ACTATTACAT ACAACAGAC CAACCTTTAG TAACAGCGCT
9421 CCCCCAAAAC CGAAAAGCAG TAATACGCTT TGCTCAAGGT TGGCATAAAA TTAACCTACC
9481 TTAGTGCCCT TTTTCTTCT ACCTACAAGC AGTGAGGTTA GCTCTTCCTT TGAAACGGTA
9541 GGGGGGCTCT GAAAAGAGCC TTTGGGTTTG ATAGCGTTTC CGGGAGCTCA GATACCTGTC

```

Figure 1 (Page 3 of 73)

9601 AAATCACTTG CCCTTGGCCT TGTGGTGACT CTCGGTCTTC TTAGGCAGAA GCACGGCCTG
9661 GATGTTAGGA AGGACGCCGC CCTGAGCAAT GGTCAACCCG CCTAGCAGTT TGTTGAGCTC
9721 CTCGTCGTTG CGGATGGCCA GCTGCAAGTG GCGCGGGATG ATGCGAGTCT TCTTGTTGTC
9781 GCGAGCCGCG TTGCCGGCCA GCTCCAGGAT CTCGGCGGTC AGGTACTCTA ACACCGCCGC
9841 CAGGTACACC GGCAGCCCTG CCCCACCCG CTCTGCGTAG TTGCCTTTAC GGAGCAGGCG
9901 GTGCACTCGG CCCACCGGA ACTGGAGACC AGCGCGAGAA GAGCGGGATT TCGCTTTGGC
9961 GCGAGCTTTG CCTCCTTGCT TACCACGTCC AGACATTGCA ATCAGACAAA AATCACCAAA
10021 ACCAGCGGCC TAAGCTCACG AGAAAACAAA CAAAATCAAG AAATATGTAA AACATGGCCG
10081 CTTTTATAGG TAGTTCCTGG GGAGTAAATC CGACTTTTTG ATTGGTCGGT AGCAAATGCT
10141 AGTCAGATAG CCAATAGAAA AGCTGTACTT TCATACCTCA TTTGCATAGC TCTGCCACG
10201 GATGACAACT GTGCAGTTTG TCTTCCAATT AACTAAGAGG TACTCTCCAT CCCTCATTAG
10261 CATAAAGCC CTATAAGTAG CAGAAATCCG CTCTTTACTT TCGACACATT TCTGGTGTTC
10321 TAAGATGCCCT GAGCCAGCCA AGTCTGCTCC CGCCCCGAAG AAGGGCTCCA AGAAGGCAGT
10381 GACCAAAGCG CAGAAGAAAG ATGGCAAGAA GCGCAAGCGC AGCCGCAAGG AGAGTTACTC
10441 TGTGTACGTG TACAAGGTGC TGAAACAGGT CCATCCCGAC ACTGGCATCT CTTCCAAGGC
10501 CATGGGCATC ATGAATTCTT TCGTTAACGA CATATTTGAG CGCATCGCGG GCGAGGCTTC
10561 CCGCTGGCG CATTACAACA AGCGCTCGAC CATCACCTCC AGGGAGATCC AGACGGCCGT
10621 GCGCTGCTG CTTCCCGGAG AGCTGGCCAA GCACGCCGTG TCGGAGGGCA CCAAGGCCGT
10681 CACCAAGTAC ACCAGCTCCA AGTAAACATT CCAAGTAAGC GTCTTAACAC CTAACCCCAA
10741 AGGCTCTTTT AAGAGCCACC CAGATACCCA CTAAAAGAGC TGTGGCCAGA CGCCAAATTT
10801 TATTTGGCGG CGGAGGGGTA TTAGAATATA GGAAGTGGAG AGGGGTGGGG ACAAGTGTTG
10861 CAGCTTAGAG AGGGACAAAG GGTCTGAAC CCGAAAGAAG CCAGCCATTA AAAATGGCTT
10921 TGGGGTCAAT TCGTTGTGCT TAAATTTAAA ATGGAGACAA GCGGCCATTT TGCTAACTCG
10981 GCGTTCCCGG AAGAAACCGC AGGCTCGCTT AGGTTTCAGA CCCAGCTGTC TGTCCCTGTC
11041 TACGTCGCCA GGATCAACGG TTGCCGTAAT GTCATAATTT CGCCACCAGC TTCTAGCCAA
11101 TAGGCTGTCC TGTCATTTTA AATATTAACC AATCGAGGGA AAGCTGTTTT GAGACTCTGA
11161 TTTACATAGC GGACCGGAGT GGGAACCTGG GCAGTAAGT CCTAAGGAAG GACTCCCCCT
11221 CTGTTTTCTG GCGCACACC TTCGTAGTAT ACTGAAGGGT GTGTCTCCTG GGTTCCTAAC
11281 TGCCCCGGTA ATAGTCTTTT AACCTAATAT GCGTCAGTTT TGATAACAAC ACTAAGGCAG
11341 TACAGAACTA AAGATGTAA CACTGCGCCA GATGTTGCTT CATACATCTT ATTCTATTCA
11401 ACTGGTTTAT TCAAGATTCA AATCAAATCA AATTTTGCTT GAATCCCAGT GCTCAGTCAG
11461 CCATAAATGG TGTGTTGCCT GATTGAACT TAAAATCTCC GTAGGGGGCT TGTAACATGC
11521 AGACAAGTTT GAAAGTTGCT TTAGGAGAAG CCAACTCTTA ACTGCTGGGT AAATTGACAA
11581 GCCTTCGAAC ACTGAAGTGA AGGCCAGTAA GGACTAGGCG CTGGGTGGGG GAGAATGAAG
11641 AGGAGACGTC ATTAAACTTA GCACATACAC TGTATCTCCT AGAGGACTCT CCCTTCCTAG
11701 ACAACTGCAG GCCGCTTTGT GGCCTGGGAA ATTCCACATT CCCTTAAGTA TTTTACTCAT
11761 GGTCTTTTCC AGGTAAAGAT TTAAAGATGA AGGGTTAGAC GTAGTCTACC TATCTTTTTA
11821 TTCAAGTCTA GAACACGTTT TTAGCACCTA GAAGTTTGCT TTCTCCATTA AAAACCGGGA
11881 ATATACAATA AATAAAATTA GTGTTAAAGC AGATTTTAC AAATTTAAAT ACCATGTAAT
11941 TTAGGTTACA GTTATTTAAC ATAAGGACTG TGTGATCTTA AATCTGCAAT TTCTTTCACA
12001 CCTGGGAAAT AACTAAGGC CTGTCTTTGG TGCCAGACAA GGCTTTATAC TTGAACACTG
12061 CTGTGCAATC ACAGGCTGCC TTGCCTAGAT AACTTATCTG AGAAATCTG ATGAGAAATG
12121 AAATTTCCAG AGTCCCTCAC AAGTAAATTT TTTTTCCTTT TTTTTCCTTT TTTTTCCTTT
12181 GAAGTTTCTC TCTTGTTTCC CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACAGCAAC
12241 CTCCGCTCC CGGGTTCAAG CCATTCTCCT GCCTCAGCCT CCGGAGTAGC TGGGATTACA
12301 GGCATGCGCC ACGACACCCT GGCTAATTTT GTATTTTATG TAGAGACGAG GTTCTCTCAT
12361 GTCGGTCAGG CTGGTCTCGA ACTCCGGACA TCAGGTGATC TGCCCGCCTT GGCTTCCCAA
12421 AGTCCTGGAT TACAGGCTTG AGCCACCGCG CCGGGCCTAA ATGGTTTTTT TTTTTCCTAT
12481 GCCTCTAATG GACCTGGTCA CTTATTCCCA TTCAGACTGA CCGCTCTCCT ACCTGCCAAC
12541 TAACTAATCA GTGTAACCAA AATCTGCAA CAAAATTCAG TATCTTTTCC CCGCTTTTTC
12601 CCCTTTCTCT TACATAGATT ATGTTTTTGC CTGTGTTAGA TGAAATAATT CTATTGCTTG
12661 TTCTCTCTTC TGTACAAGTA CCCAGTAAGC AAATTATTAA CTTCTTGGTC ATTTATTCTT
12721 GAATTTTCCA CCAAGACAGT GTTTATGTGA GTCATACAAT AAGAACCAAC AGAAATGTGT
12781 GTCTTGAAAA CAGGTTGTCT ATCCCTGGAC CCTTTGAGTT TTCTGTTTAC TTTCTTTTGG

Figure 1 (Page 4 of 73)

```

12841 CTTTTCATG CTAAAAGTTT ATCGTCCGCG TTTGTTTGTT TTGGTTATTC TAATTGGACT
12901 TGGCTGATTG GTTGCATATT GGTGGCAGTA GTAGAATTTG AATTCTGGTT TTCTGGTCAC
12961 ATCATTAAGT GATTAGTCAG TGGAGAGGAC AGGAAATCTG GTTTATTTAT TAACCTTTTT
13021 TTGGGGTGTT TTTGTTTGAA GATGTTGATA TTCTCTGTGA GGACACAGGG TTAGAGTTGG
13081 TGTTCCTCTT TCTGACTTTA CATGGGATTT GATGTTTTGT GCTTGTATGC CTCTTTCCAC
13141 CTTCCAAAAC TTGTCTTTTT TGAGTCCAAA TAGTTGTCTGA TATCTGCAA ACCAGTATTC
13201 CTGTGTTAAG ATGATATGAA TATAAAATGG CTGCCCTGTT ATAACCTTTG ACTTTAAGAA
13261 AGTGTAGGA CTAACAGGAG AAAAAAGGA AATCAAGGAA ACCGAATGTC TGGTCTCAAT
13321 AACTGCTATG GCAGAGGCTC TACAGCTTAT TATTAATTTT AGTAATTTCA CATTATTGCC
13381 CCTTCACGTT CTTTAAGTAA GGTTAGAGGA CAGAAGAAAC ATAATGTTGT TACAAATTGG
13441 ACTATTGAGT CAGGGAAAAA AAAGAGTGCT TTCAATATCT GAATAAAACA AAGATTTAAT
13501 ATTTTCTAAA CCTTAACGAG TTTATTGTAA GGGATGTGAT GCTGGAACT AGGAACTAG
13561 AATTTTCTTC TAAACTGAGA ATCAGAATTA TTCATATTCT CAGCAGTGGT GCCACCTGAG
13621 GGACTTCTGA TCTTAATTAC ATACTTTTAT TTCTTTAACT GATCAACATG CTAAATAGAT
13681 AACCTATGGC TCTGTTTTTA CCCACTTTAA ATTCTGTTCT ATTAGCACGG TTAGCTTTCC
13741 TAATTGGCAA TAAGATTGAG ACTATCTTTT TTTTTTTTTT GAGACAGAAT TTTGCTCTGT
13801 GGCCAGGCT GGGGTGCAGT GGCACAATCT CGGCTCACTG CAACCTCTGC CTCCAGGGTT
13861 CTAGCAATTT TCCTGCCTCA GCCTCCCCAG TAGCTGGGAT TACAGGTGCA CCACCACGCC
13921 TGGCTAATTT GTGCATTTTT AGTAGAGATG GGGTTTCGCC ATGTTGGCCA AACTGGTCTC
13981 GAACTCAGGT GATCCACCTC GGCCTCCCAA AGTGATGAGA TTACAGGCGT GAGCCACCGT
14041 GCCCAGAAAA GACTATCTTA TTTTATGAAT TTAAATAATT GTGAAATTAT CCACTTAAGG
14101 GAATTAATAA ATTATAATGT AATCTTAAAT TTTAGTTGGC TTACATAAAG ACTTAAATA
14161 CATCAATTTA AATAAAAACT CATTGTGCTA AAAAAAATC AAAAATTTTC CTTGTGCTTT
14221 AAATGTGCTA CCTCTTTAAG TTCTAATTAA GAGAAAAAAA GTTTAACTGT GAGTTTCATT
14281 AGTGGTCTTA GTTAACAGCT TAAAGTATTT TGTAAAAAAA ATACTTCACA ATTTTAAAT
14341 AACTTAAAAA TATTAATACC TCTTTTATTA GGTTTTTTTT ATAAGGAAAA TATATAATAC
14401 ATCTAATCAA GATTTTTTTT GGACAAATTG GCTTAATAAT TTCATTTTAA AAATGGCTTC
14461 TTTATTCTTA TACTGTAAAA ATAATATTAG CAGAATATTA TAGTATACAC AAGTTTAGGG
14521 TTCATATTCT AAAAAACAAA AACAAAAGCT AATTTAACTT GCATTTACTA AATTTCTTCC
14581 ACTAGTTGTA CTGGTTACAT GAGTTAACAT CACTTTATTT ATTATTCTAA AATTGTAAAT
14641 TATTCATTGA ACCAAATTAA ATGATAATAG ATAATGTCAT TTTTAAAAAT GGAATTAAAT
14701 TTTATGTTAC TAATTATAAG GATTCAATGT GTGAGCTTAA GTACTGAGTT CACAGTGTAT
14761 GATAACTTTA AGAATTTAGG TGAATATTAT TAAATTGAGT AAATTAATTC TCAATCTTTG
14821 GATACCTGGA CAATTTCTAA ATTGGAGGGT ACAAATACA AATCACAAGA AACAGTGTAG
14881 TTTTATGCAA ATAACATTTT TACACAGTTT AGAATAACCA TTGATAAACA GATAAGAGAA
14941 CATATGATTG CCTTAGAATA GATACTGTTG CTTTCGCCAC TTTAGATTTG TAAATCACGT
15001 ACTGTATACG TGTGGGCGTA GAGGACCATG CAGGTTTTGG ATGACTGCCT CTGTTTTCGT
15061 CATGCCTATG CGGGAACACA ATTGCCTGCT TTGTTTAAGG GCTATGGTTA ATCCAAACAG
15121 CTCTGACTCT ATCAAGTACT ATAGCTACAG AGAAACACAA GTAAGCATTC GAGATAATGA
15181 CTACCTTGAG CCTTTACTTA TTTAAAAAGT TGTTACTGTT TGTTAATGTG GTACATTCAA
15241 TTTACTATGG ATTGTCACTC TAAATAAGA CTTCAATCTT TTTCTTATTT TTATATAGCC
15301 ATGATTTATA TTCATATCTT AATGTAATAA CCAATCTTCT CTGACAACAT TATAACAATG
15361 CTGGAACCTC CATTTTCAGT ACTTCAAACA ACAAATACTG CTTTATACT TCAGAGCAGA
15421 TGGATATGTG CTTCCCAGTG TAAACACATT TGGAACTCTA CTGAGAAATA CACTATCACT
15481 AAAAATACAG TTCTGAGATT CATTAAAAGA CCTCCAGAAT TCTGGAAGTA GGAAGTTTCC
15541 TCTTCAAAGT CTACAGAGGA AGATGAGGTC TGAAATAGAC AGCTTCTTCC TTCTTTTACC
15601 TGTGGTATTA TTCTGTTTTG TCCTTTTCTC CATTATCTGT CTTTCCAGTG ATGAAATTTT
15661 GATCTGGCCC TCCCAAGTAT TAAAAACAA GCAAATAAAC AAATCTCAGT TATATTTTAC
15721 TAAGATATTG GCATGCTAAC TTTTTCAGG TTTGTAACAA GGACCTTTAT AACTTGACTA
15781 AAAGTTCCTA AATAAGAATA TTTACTAGAA AATTTATTTT TGCCTGTGGC CCACATTTGA
15841 GTCAAAATAA TCAATTAGGA AAAATGAACT TGTTTAACTA AAGTTGACCA AACTGATCTT
15901 TGACCAAACCT GATCTTTGAG ACCTATTCAT CTAAGACAAG CCAATTAAAT TCTTGGAGAC
15961 AATTTGTACT TTAAGGAATT CTTATAATAT TTGTAATTAC CCTCATAACT TTTTTTTTTT
16021 CCCTACTTCT GTGCTTCTCT AATATGCAGA TTATTAAATG TTGTTACAAA GCCATTGTCA

```

Figure 1 (Page 5 of 73)

16081 AAAAAACAAA AAACAAAAAA CTAAACAAAC TCACATGGTT AGACTTGCTC CTTTATGAGA
16141 TATTTTTTACC AAAAATGGAG GAGTTGAAAA ACTCTGGTGC CAGAAATCGT GAAGACATGG
16201 CCTACCTAAC ATGGAAATGT TGGTTGTCAG TGGAAAATAC TACACAGAGA TAGCCATAGT
16261 GCTGCACAGC CAATCTTAAG TGTCTCTAGA GAATCACTAA TTGTTTCTAG AGAATCACTA
16321 ATTTGTTTTCT TTTAACATTC TTGGTTTATA CAAGAAGAGA GTATCCATAC TAAACTCTTT
16381 TCTACTGAAA ATAATGTGCA AACATAACAT CCTATTCCCTA GACAGTTTGT AGTTTTTTTTT
16441 TCCCATTTCCT ATTTTATATA TCATCTTTTTT AAAATACTTT GTTGAGTGAA ATCAGTCCAT
16501 TGCTTGATAT ACCTTGAGCA CAAGTAAATA GTATGCCAAA AATTAAATGT CTTTCAGTCA
16561 CAGTTTGACA AACTCAACTA CCCTGAGCCT ATAGAGTGGT AATAATTGCC CTACTCATAA
16621 AGATGGGGTG AAGATTAAAT GAAATAGCAC CTATAGAACA CTAGTTCCAG ACGTGGTATC
16681 ATGCTAGTAA AATGGCTGCA CAGCACTGCT CAATGATGAC AAAAAGTGAA GCTTCTGGAG
16741 ACAGACTCCA AGTTTGACTC CCAGATCACC ACATATAAGA TGTGGGACTC TGAGGCAGGT
16801 CATTTAATCT CTCTGTGCAT TAGTATCCTT CTCTATACCT TTACAGTGAT GGTACATAGCA
16861 CCTACCTTCT AGAAGTATGT GAAGATTAAA GATCCTTAAT GCATATAAAC CACTGTGTTT
16921 ACTGCTGTTT GACAAAATTTT ATTTATAACC ATCTTTACGC TCCTAAAAGG ACTTGAAGCA
16981 GCTTATGACT GAAGACTTTG GTAGGAGTTG GCCTTCTATA AATTATAAGA ATTTCATAAA
17041 TTATTTGATA TGAAAAATGCC AGTTGATCAT AGTATGTTTA CCGGGGTCCA ACAGGTTGAG
17101 AAAAAATACA CTTTTTTTCC CTGAACATAT GAAATTAGCT CTCTAGGCAT ATTCCTAAGG
17161 ACTTAAAGAA TGATAACTAT CATTTCTCTT AAATCTTCCA GATTTGGAAG GATATATATA
17221 TTCAGCACAT TGACAGACAA TCCCAGTAGT CCTAAATTAA AAGACATTAA AAATTAGTGA
17281 AACTTTTCTT ACCTTTAGCC TGTGTAATCC TGGATGACCA AGCATAAAAT TAAATTGAGT
17341 AGAGTATACC ACTGTAACAT TTCCTGAAAG GTATTCTAGG CTCTGAGTAA TTTCTTTGGG
17401 GTCTGAAGAT CAGTTTGACA TATCCTCAAG TATCATGAGT TCATTATAAT TAAGAAAAAG
17461 AGAGTAAATC TGGAGAATGA GCCACTTTCT TACTACTCCT TGACCTCAGT TCTTTTTTTT
17521 AGAGACAGGG TCTCACTTTG TTGCCCAGGC TGCCAGGCTG GAGTGTAGTG GCGCAATCGC
17581 ATCTCATTTG AACCTCCACC TTCTGGGCTG AAGCCATCCT CCTGCCTCAG CATCCTGAGT
17641 ATCTGGAACC ACAGCAGGTG CACACCACCA TGCCAAGCTA ATTTTTTAAA AAGTTTTTTT
17701 TAGAGATGGG GTCTTACTAT GTTGCCCAGG CTGGTCTCAA ACTCCTGGGC TTAAGTGATC
17761 CTCCTGCCTC AGCCTCCCAA ATTGTTGGGA TTACTAGTGT GAGTCACTGT ACCCCGCCCC
17821 ACTTCAGTTC TGAGGAGGAA AAAATATGTA ATAATAATGG GACTTTGGTT TGCTGATTTA
17881 AAGATTCTATG TAACCTTATC ATCCAATGCG CAATTTGTAG AATAATTAA AGAGCATCT
17941 GGTCTCATGT TTCTACAGTT GCTCATGCCT TGATAGTAGA TCTCCTTGCT CTGGCTCAG
18001 AAGGGTAAAA GAGCAGAAAT GATGGGGCTT CTCTCATTTCT ATGAGGAAAT AGACCTATGT
18061 AGAGGAGGCT ACCTGTGGTA AAACCTTATC CTCATCACTT AAAATTCTAG GCTTATTCTC
18121 TGACCATATC AAGTTTTCOA ATGGTAAAG AATTGGATTC AAGAGAAATA TGAATAAACT
18181 TTTGTTTTCA CTTTTCTCCC TCCTCTCCCC CCATTCTCCC TTCCTTTATT TTCTTGTCT
18241 TAGTTTTCTT TTTACTTTTT TGTCTACTAT TATTTGCCCA AACTCACTG TAGGCTAGAA
18301 CAAAAAATAA TTGAAAATTA AAATGTGCCC CTTTTGTTGT TAGACTTGCT TAAACAATTG
18361 GGGTAATGAA CCTTGACAC TAGATTTTAA AACACACACA TTTGAGCTTC AGTGCCTGA
18421 AATAAATATA TTTTAAACAA TTAATAAATA AAATTGCATG TTTAAAAAAT CTGCAGAGAA
18481 CAATACACGT TGTGAGATCT TGAATGGAAG GAAAACCTGCT AGCCTCAAGA GTGGATCAAA
18541 GATGCTCAGC AGGCAACAGA GTAAGAGCAT GTTGGAGGGT TTAGAGAGTG TGCTCAGGGT
18601 TCTAGGCTCT AAAAATCAGA CAGTCCCCAC GGCCTGGCCT TCGTCGCTGT ATCTTCTTTA
18661 TGAAAAACAC TAAGTCTTTT TCCTCACTGG ATAAATTTTT ATCCTTCAAG TTTAGATCAA
18721 ATGGAACTTT AGGACACTGA CTAGGTTACA TTCATCTTTT AAGAGCGTAC AGACATTCAA
18781 GGGCTAGAGG ATGTGGGTTT ACTGCACAGG CTCATTATCC AACAGCTGTG CTACCTGGGA
18841 AACTTAACCT CTCTGTGCC TTAATTCCCTC ATCTATAACG CAGGGAGAT AGCAGTAGGT
18901 ATCTCATAAG GTTGTGGA CAACTAAATG CATTGGTATC TATTGTGTAA AGTGCTTAAA
18961 AACTGCCTG GCACAGAGCA AACATCCAGT GAACTTTAGC CATCATCATT ATCATTGTTC
19021 TCAGAGTCAA ATACAATATC TCATATCTGA TAAATTACAG AAGTGAATCA ATCACTCTCT
19081 CTCTTTTCTC CAGGGGGAGA CAACAGCTTT TAGACATATC TTTTCCAACA GTCGTCCTG
19141 CTGGACACTG TTTTATCTTG CAAATAAAC AATGAAAATG AGTGATCCTA GAAGAAGATA
19201 AATGGAGGTA TTTTGAACAA TCAAAGAAGG ACAAATGAAC ACCTGGCTGA GAAAAATTAG
19261 CTCTTTTTTTC TATGCATAAA ACTATTAAAA TATTCTTCAT AGAAATTTAT GACACAGGAA

Figure 1 (Page 6 of 73)

19321 ACATAAAGAC AAAATTAAAA TAACTCCTAG TATCTCCTAT TCTTTTTATA TGTATATTAT
19381 ATATACTCAT ATTCATATAT ACATATATCT CACATCATGT ATCATATATA AAATAAAATT
19441 AGGTGTCATG ATATATATTT AGATAAATAT ACTTAGAAAC TTTTATATGG ATGTATAATT
19501 TATGGATATA TTGATAATTA TGTATTTGTT ATTGACTACT TCAATTGATT CCCATTTTAA
19561 TGCATTATAT TATAGATTAT ATAGCTCACA CATCTTTGTA CATAAATCTT TGTCAAATA
19621 TTATTTTCTA AGGATAGACT TCATGAAGTG GAAATACATA ATCAAAAGTG AAAACATTT
19681 TCTAAGGTTT TTAACATATA CATTGCCAAA TTGCTATTCA GGATCATACC AATTTATAAT
19741 CCCAAAATAA TATGGAAATT CCTGTTTTAT AGCACATATA TTTACAATAA ATTTTAAAAA
19801 TCACTGTAA CTAATAGTC CTTCAAAAGA AAAAAAATTT GAAATTACAT TATTTTAATG
19861 ACTCTATTAG TGAGGGTCAT TCTTCCCATG TTTCTTGTTA GCCATGACCC TATAAGAAAT
19921 AAATGCACT GCAAAATGAT AAACATGACA TCAATCATTA CATGGGAAGG CACTATATAA
19981 AGAATAATAC CTTAGGTTAA GGCCACATAA ATATTTATCA GGTGCCTTTT CTGCGGAGGA
20041 CTCTGAAGGG ATACTAACT GCATTTAGCT GCATGCAACT GAAACTACTT TTACCTACAT
20101 TGTCTCTTAT AAACATTATA ACTACTCTTT GAGAAAGTGT TTACTATGGA CTGAATTGTC
20161 TCCCCATCCC CCCAAATTCA TATATTGAAG CCATAAACCC CAATATGACT CTATTCTAG
20221 ACAGGACTTA TAAGAGGTAA TTAAGGTTAA ATGAGGTCAT TAGGATGGGT TCTAACTGG
20281 ATAGGATTGG TGGCCTTATA AGAAGAGGAA GATTCCTGCAC TTGGTCTTCC AAATTAATAA
20341 ATTTATTTAA AAGAAAAAAA AAAAAGAGGA AGAGAGGGAG CTCTGCACAT ATACTGAGGA
20401 AAGGCTATGT GAGCTCTCAC AGTGAGAAGG TAGCACTCTA CAAGCCAGCA AGAGAGCCCT
20461 CAACAGAATC CAGCCATGCT ATACCCTGCT CTGAGACTTC CAGCCTCCAG AACTGTGATA
20521 AAATTTTGTT GTTTAAACCA CACAATCTAT GGTATTTTTT TATGGCAGCC CAAGCCAACA
20581 AAGACAGCAT CATTGCTGTC ACTTACAGAC AAGAAAACTA AGACTAGGAG AGAGAAAAGT
20641 TAAACTTGTC CAAGGTCACA AAAGCCAGAA ACAAGTGAGG TGAGAAAGTG ACCTTGTTCT
20701 CCTCAATCCA AGGCCAGGAC TCCTCCACTC CACATGTAGA TAGCCACCTC ACAGTCAACA
20761 GCCAAATGTC CACACCCAG AGTCAGCATT AGACCAAGAT GTCTTACCAG GAGACAAATG
20821 CCTCATCTTG AATAAATATG ATCTAACAAC TTACCCATGT AAAACATTGA ATCTCATGAG
20881 AAACAAAAAT GCAAAGTATG TAGAAAACTA TGTTTACCAC TTAAGTGACA GTGATAAAAA
20941 GCTTAATGAT ATCCTTATAG TCTTGAGGG GTTTGTATAT GTGGTGAAAC AGGTGCTCAC
21001 GCACCTGTA TAGACTGTAA ATTGGTCCTA GAGAGAAAAA TAAATAAACT GGAAGGAGAT
21061 ATGCTGTATG TTTACTTTTT TTATGGAAAC ATATGATATA CCTGGAAATT CGATTGACCA
21121 TGCATCTATT TCTTCAATGG GTATGCACAG TTGAGCTGTT CCCATGCACC AGGCATGTA
21181 ATGGGACAAC TGCACATGAC AGTCAAAAAA CTCAGTCTCA TGAAGTCGAC ATGCTCATGG
21241 AGAGGTGCTA CCCACTAAAC TAATATTTGT ATATCAATTA TGGATACATT GGGCCACATT
21301 TACAGAAATT CACTTACAGT GGGTTACCAG AAGGGATTTT TTTTCTTGAT TGGCAAGAAG
21361 GCTAGGCTGT TTTGTTGGGG GCTGGCAGGA GCTGTCTAGG CTGCCCCAAGT ATGCAGGTCT
21421 CTTCTATCAT CCTGTGTTAA CCATCTTCCA TGTATCTTTC AACCTCATGG TCATCTGCAG
21481 CATGTCTAGG GGTCAATATCT ATGTTCCATG CAGGAAAAAA GGGTAAAGGG AAAGGGAAGT
21541 AGGCATGTAC CATTTTAATG CACACCTGG TTTTCAGAAA ATTTAAGAAG AAAGACTTTC
21601 TGCTTTTCTC TGACTATTCT GTATTCTGGA TTACAACGCA ACAGAAACGT CACCTTAAAT
21661 TCTAATGTTT TTCTCTCCTT GCTTTCAAAA ACTGACTCAT TAACCTCCAC GTGGCTTGGA
21721 AAAATTATTT CAGTCATCCA GTAATGAGCT GTTCATAGAA ATGTTTTGGA CATCAAGTCT
21781 GTGTTGTTAG CATTATACAT GTTAAGCATT GAATAAAAAA CAACATGATG TGGGTAAATT
21841 TCTTTACTTA CATATAAGTA CTTATATACT TATAGCTGAA AAGAGAGGTT GAAATGTCAG
21901 GTGGAACAGA AATAAGATTA CCTAGATGTT TCTCCTATGG GTGATTTTCA GCTATGCTGA
21961 TCTTTCTTCT GGGTCAGGTA CTCCCAGAAC TTCCTAATTA AATGGTGGCC CTGATCTTAG
22021 TTCTCTCTCT CTCTTAGACA TTTTCCAGGA CTACAGAAGA TGTGCAGTTT ATAAATGAGT
22081 AGCAGAAACC TACTGAACAA ATTATTCAGG CTCATCTGAA CAGAGAGGAC ACCTTCTCTG
22141 CTATACTCTC TCAGTGATTT CCCTGCCTTG GGGTCAATTA TTGTCTTGGA CATGATTTA
22201 AGCACATAAT AATTGTTGTC ATTGCTTATG TTTGGATTTT ATCTCCCAA AATAGATGGTA
22261 AATTCTTTAG TTTAGAGACC AAGTAATACT TAAAAAATA TTTTGTGTGT GTGTGTGTGT
22321 TTTTCTGTG TCTCTCAGCC CTGTAATAGC ATCGTACTTA CACTTGTTAG ATTTTATAG
22381 ACAACTTTTA CAAAACATGG AATTATCTAC ATACCCTTTC TACAAAACAG ACAAATTA
22441 TACTCAGTAG TTGAACCAA AAAAGCAGTT CAAATAAAAT ACTTGAAAT GAAGAAATCA
22501 TTTGAACAGA GTTAAAGTTA ATCGTAAAT AATGTCTGTA AAAATTATTG CCAATCAAA

Figure 1 (Page 7 of 73)

22561 ATAAAGTTCA AAAATAGTGC TTGAAAAAGG AAGAATCATA TGAAAAGGGA CTACTCATTT
22621 TAAAAATGTT AGATATCAGG AAAAGCCAAG AAGTGAGTAT GGTAAGAGTG CTGTCAAGTG
22681 AAACCCTGCT AATCTCACTG AACATGTAAA AATCTGTAGA TGCCTTTATT TTATTCACTC
22741 ACACACATAT GTAGAAAGAG AAATATATGG TAAACATTAA AAAAACCAAA TTAGAATGTA
22801 AAATTAATAC TTTAAAAAAT GGGCTGTATA CTTTTCTTAT CACCGGAGAT AAGAATTTAT
22861 TATTTTAAAT ATAAAGTTAT TTTCTCTGTG ACTGTTTCCA TGACTTTGCT ACTTAGAAGT
22921 TAGAGATGCC AAAGTTTATC TAAGAAAATG TTTATGGAAA TATTATTTCA ATAATGAATG
22981 TTTAGAAGAC TGAATTTTCT GACTGGGCGC AGTGGCTCAT GCCTGTAATC CCAGCACTTT
23041 GAGAGGCTGA AGAAGGAGGA TCGCTTGAGT CCGGGAGTTC AAGAGCATCC TGGGCAACAC
23101 AGCGAGACCC TGCAGCAAAG TAAAAAGAAA AAAGAATTGA AAAAGGAAGA CTGAATTTCC
23161 TTTGGGCAAG TCATGTGACA TTCCTGTGCC TCAGTTTCTT CATCTATAAA GTTAATTCCT
23221 ACATTTTGGG GGAAGGGAGA GAAAAACTTA GGATAGTGAC TGGCACAGAA GAAGCACTAT
23281 ATACTATATA TATGTGGATA TCATTTGTTT TTATGGTACC ATTTTAGCTA TCTAATGCAA
23341 AATATGAATC TTTTTTTTCT GGGTCTTAAA TTATGGAATG TAAGAATTTT CTAAATTCCT
23401 TAATTCTGTG TTAGTTTTAA AGCAATGGAG TAACGTATCT GTCAACTTGT AAATATAAGG
23461 ATCAACCTGA TCCACAATTT GACCCCTAGC CACTAATATT TAATAGTACA ACACTCAGAA
23521 ATTATCAAAG GTCAGAGAAG CCAAACAAAT GTAAAAACAT ACAGGTGCTC AGAAAGATGC
23581 ACCTGTAATC TCTCTAAGGA GAAATATTTT CCAAACTGAG TGACACGGTG CTTTAGTGAG
23641 TTGTGGAATC AATCTCATGA TTTCCAACCT AGTGTCTTTT TAAAAATGAA CTAGTCCACA
23701 GTAGAATATA CTAAAGTGCT GGTGCTTAAG ATAGTATTGT TTTCTGGAAA AAAAAAAAAA
23761 ATTTTTTTTT TTTGAGACAG GGTCTCGCTC TTGCCAGGC TGAAGTGCAG TGGCACAATC
23821 ATGCTCACTG CAGCCTTGAC CTCCTGGGCC CAAGTGATTC TCCCACCTCA GCCTTTTGAG
23881 TAACTGGGAC CACAGGTACG TGCCACCACA CCCGGGTAAT TTTTAAATTG TAGAGACAGG
23941 GTCTTGCTAT GTGCTTAGGC TGGCCTTGTT AACTCCTGGG CTCTAGTGAT CCACCTAGCCT
24001 CAGCCTCCCA AATTTATGGG ATTATAGGCA TGAGCCACCC TACCTGGCCT GTTCCCTGAA
24061 TTTTTTTTTT TTTTCAAGGT TTGTGCATAT GTGTGTGTGT ATGGGTATAA CAGAGAGACA
24121 GAGAGAAAGA AACTTTTCTA TCTCACTTTG CAATCAGAAG TTTGAAGTCT TATCTTTTGG
24181 CTTTGTGTTT AGAAATATTT CAAATGTAGA CTCTCTCCTT TACCACACTG TCCCCTTAGG
24241 CAAGGTCTTT GCCATTCTTC TGAGACTATT GCAACAGACT CCCAATTCT GACTGTGGGC
24301 CCTTCTCAAA AATGATTGTT TATGCAATAA ATCTAAACCC AAGACAATA CAACAATACA
24361 ACAAATTCTC TGCTTAAAAA CTTCCAATGT CTGCCGGGCG CGGCGGCTCA CAGACTGTATT
24421 CCCAGCACTT TGGAGGCAGA GGCGGGCAGA TCACTTGAGG TGGGGAGTTC GAGACTTAGCC
24481 TGGCCAACAT GATGAAACCC CATCTCTACT AAAAATACAA AAAATTAGCC AGGCATGGTG
24541 GTGGGCGCCT ATAATCCCAG CTAATTGGGA GGCTGAGGCA GGAGAATTGC CTGAACCTGG
24601 GAGGTGGAGG TTGCACTGAG CCAAGATCAC ACCATTGCAC TCCAGCCTGG GCAACAAGAG
24661 CAAAACCTCT TCTCAAACCA AACCAAAACA AAACCTCTAA TATCTACCAA ATGTTTCACA
24721 CAAGTATTTG GGGATCTTCA CAAATGGCCC TTATGGAGTT TTCCTTTGCT GAGACCCTAT
24781 GCTCTGGCCA CACTAAACTC ATTCAGCATC CCAGAAAGGC CTCAGCCTTT GTGAGCAAGC
24841 TCTTATCTCC AGGCCTCTCA CAAAGACCTG TTCCAGTAGA AGCTCAGGGG AGCACACTGG
24901 ACATTATTCC AACAACCTTT TCCCCACAGC TATGCAGCCA AATCTGCCAG CTCAGTTAAT
24961 TAATTAAGCA ATTCAGAGAT GAGGGTCTGC CCAGGCTGGA GTGCAGTAGC TGCGACCTCA
25021 AGCTCCTGGG CTCTAAGTGA TCCTCTTCAG TCTACCCAGA AGCTGGGACT GCAGGCATGT
25081 GCCACCACAC CCAGCTAATT TTTTTTTTTT TCAGTAGGGA CCAGGCCAAC CTAGTCTTGA
25141 ACTCCTGGCC TCCAGCCTTC CGAAGTGCTG TAATTACAGG CATGAATCAC TGCGCCAGC
25201 CAACCCGCCC AGTCTTGTTA GACATGGGGT CTGTAGTTTC TAGTAGGTTT TTAGTCTAG
25261 GGTTCTTACC TCATGTTTTA TAGTTAATTT AGGGGAGGGA CTGTGTCTGT TTATCTGGGG
25321 ATGTAGGGGT GGGCAGGGG ATAGAGGGGA CTTCAATTAA TGAAACCAGA AGCAAACTC
25381 AGTTGAGGAC ACCGGTCATG AGAGTGGCCT GATTATGGCC AATCTTACAT AATGTGTGAG
25441 ATCTTGATAT TACCCCATCC TTGAGAGTCC TCTATAAAGC TACAGGGACT TGGGAGCACC
25501 TTTAATTACA GACAACCCAT GTTCCTGTGG ATTATGATTT ATTAGATTGC ACATGCCATA
25561 ATAAAGACAT CCTCTGCAGT CTTTTGACAA TTCTATAAGC ATCTTCTGAC TCCGCAATTA
25621 GACAGCTAAG AGATCTGTGT TACTTCCCTC ACATATATAA ATAATTTTAA ATAAAAATCA
25681 TGGCGTGAAT AATTTCTTTC CTCTACCGAT TTGAAGCTAT CCATTTGGAA GACCACTCTG
25741 AAGAGATGAA ATAAGTCTTC TGCCAAAGAT TACTTATTAA TTTACAAGGA AAAGGGGAAG

Figure 1 (Page 8 of 73)

25801	TTTTGTTCCCT	CTCCGTGAAT	TTGATTGAAA	ATCGAGGGCT	TTCTCGAATA	GTTTTGGCAT
25861	CCAGGGTCAT	TTTTTCATTAA	AAAGAGAAAA	GTCATGTCAA	ATATGAATTT	CCGCAGATTA
25921	TTCAGCACTA	GACCCTGGGA	GATTCTGTAA	AGAGGGGTTT	TGTTATACTC	AACTTTTCCG
25981	GGTAAACAA	ACACAAATAC	TCCTCCTCCA	AGGGGCGGGG	GCGGTGCCCTA	GGTGATGCAC
26041	CAATCACAGC	GCGCCCTACC	CTATATAAGG	CCCCGAGGCC	GCCCGGGTGT	TTCATGCTTT
26101	TCGCTGGTTA	TTACATCTTG	CGTTTCTCTG	TTGTTATGTC	TGAAACCGTG	CCTGCAGCTT
26161	CTGCCAGTGC	TGGTGTAGCC	GCTATGGAGA	AACTTCCAAC	CAAGAAGCGA	GGGAGGAAGC
26221	CGGCTGGCTT	GATAAGTGCA	AGTCGCAAAAG	TGCCGAACCT	CTCTGTGTCC	AAGTTGATCA
26281	CCGAGGCCCT	TTCAGTGTCA	CAGGAACGAG	TAGGTATGTC	TTTGGTTGCG	CTCAAGAAGG
26341	CATTGGCCGC	TGCTGGCTAC	GACGTAGAGA	AGAATAACAG	CCGCATCAAA	CTGTCCCTCA
26401	AGAGCTTAGT	GAACAAGGGA	ATCCTGGTGC	AAACCAGGGG	TACTGGTGCT	TCCGGTTCCCT
26461	TTAAGCTTAG	TAAGAAGGTG	ATTCCTAAAT	CTACCAGAAAG	CAAGGCTAAA	AAGTCAGTTT
26521	CTGCCAAGAC	CAAGAAGCTG	GTTTTATCCA	GGGACTCCAA	GTCACCAAAG	ACTGCTAAAA
26581	CCAATAAGAG	AGCCAAGAAG	CCGAGAGCGA	CAACTCCTAA	AACTGTTAGG	AGCGGGAGAA
26641	AGGCTAAAGG	AGCCAAGGGT	AAGCAACAGC	AGAAGAGCCC	AGTGAAGGCA	AGGGCTTCGA
26701	AGTCAAAATT	GACCCAACAT	CATGAAGTTA	ATGTTAGAAA	GGCCACATCT	AAGAAGTAAA
26761	GAGCTTTCCG	GGAGGCCAAT	TTGGAAGAAA	CCCAAAGGCT	CTTTTAAGAG	CCACCCACAT
26821	TATTTTAAGA	TGGCGTAACA	CTGGAAACAA	GTTTCTGTGA	CAGTTATCTA	TAGGTTTAAG
26881	TTGTGATGCA	GCTGAGTTGA	AAAGGCTTGA	GATTGGAGAA	TTAATTCAGG	CCAGGCTTCA
26941	AGACCATCCT	GGGCAACATA	GCCAGACTAC	CATCTATACC	AGGGGTCCCTC	ATTTCCCCGG
27001	CCACCGACCG	GTAACCGGTC	CCTGTCCATG	GCACGTTATG	AATTGAGCCG	CACAGCTGAG
27061	GGGTGAGCGA	ACATTAACCA	ACTGAGCTCC	ACCGCCTGTC	AGGTAGCTG	CAGCATTAGA
27121	TAGATTCTCA	TAAGCTCAAA	CTGTATTGTG	AATGGCACAT	GCAAGGGATC	TAGGTTTCAG
27181	GCTCCTTGTG	ACAATCTAAT	GCCTGATGAT	CTGAGGTTGG	AGCAGTTTTA	GTCCGGAAAT
27241	CATTGCTCCC	AGCCCCTGCA	CCCCCTGGTC	CGTGGTATAA	TTGTCTTACA	CAAAACGGTC
27301	TCTTGTGTCA	AAAAGGTGG	AGACTACTGG	TTTACAAAA	AAGTAAATTA	GTCAAGCATG
27361	GTTGGCACGC	TCCCTTAGTC	CCTGCACCCA	GGCGTTTAAG	GATACAGTGA	GCTATGATGG
27421	TGCTACCTCA	CTCCAGCCTG	GGTGACAGCG	AGTCAGACGT	TGTCTCAAAA	CTTAAAAAAA
27481	AAAAAAGTTA	AAACAGAAAA	AGGGCTTCTT	GTCAGAGACT	GCCGTATATC	TAGAGGTCCA
27541	GGAACATAAA	AGTCTGATGT	CCAATCCTGA	AAAGCTCGAT	GGTGCCTAG	AGGAGGCTTT
27601	TACATTGAAG	AGCATCTAAG	TTCTGGAAAT	GCCAGTGTCA	GGGAAGGGAA	GTGGAGAGCA
27661	ATTTGGCATC	CAACATAAAC	TTGCTGATAC	TTTTTTTTTTT	TTTAACACAA	GTACTACATT
27721	CTAGTCTTTC	TGTGGTGTCA	TTGTAACAT	TGTTTCTTAA	TATGCTATCC	ACTGACTTCA
27781	AGGGATCAAT	AAATAGGAAT	CAAGGTGTCC	CAGAAATATG	ATTAGGGGAG	TTTTTTTTGTT
27841	GTTGTTGTTG	TTGTTGTTT	TCATCTATTC	ATTATCCTGT	AGCTGAAATT	TAGAATTTTC
27901	TTCCATTGTG	TGTGACTGAT	AGAAATAACA	AATTTGTAGG	TTATAGTTGT	TGCAAGAATC
27961	TGGAAATCGT	GCTTGCTTAT	TTCCGAAGTA	CTATTAGGTA	TATCAACAAA	AACACACATA
28021	TTACGGTCAA	GTGGTTTGAT	AATTATTTTA	ATATTATTGG	TCTAATACAA	TTGTAACCTT
28081	ATGAATTACT	TTAAGTATCT	TATTTATGAA	AAGAATCTGT	AAGTTTCATC	AGACTACCAG
28141	AGCATACCGA	AGACTGAAAA	ATTTTAAGAA	TCCAAACCTT	AATGGAAATG	TTGGAGGCTG
28201	CCCAATTAGG	TTCTGAATTC	CACCTTCCTG	AATCACAAAC	TTGTTTTAAC	TCTCAGTCTG
28261	AGGTAAACTA	CGTTTCTCTT	TAAACAGACA	TAGTTTAATT	TTCTTTTGAT	TTTTGATTTA
28321	GTATTCTTAC	TGATCATCAT	AAATAACCAA	TGCTAATGTT	AGTCTACTTT	GGACCATGGT
28381	ATTTTCGAGAA	ACTTTGAACA	AAGTCCCCTG	CAAAACTATG	CATTGCATTA	TTTCACATAC
28441	ATTTATGTTT	TCCAGACGGT	TCAATAGTAC	CTCACTTTTC	TGAACCTATT	TGTATAGTTT
28501	GGCATCTTTT	TAAAAATTGT	GTCCATAAAT	GAAAGGTTGT	AAACATTATG	TTTTAAATTT
28561	GTATAGATAA	AATCAACCAC	AGACCTTTCC	TTGCTTGGAT	GTAATTGCCA	TTGTTTCCCA
28621	ATGAGTTCGG	AATTACTAGG	ATTGTGCAAA	AATATGCCTC	ACTTGCCTGA	CATAGCAGAG
28681	AGCCATTTTG	CCTAAATGCT	GTGCCCAGCA	ATGGACTGTC	ACCAGATTCT	CATCAGATAC
28741	AGTGAGGATG	AACAAC TAGC	CTCTCCCAGC	AGCTGGCCGG	TCTCTCAATA	ATATGGGACT
28801	CCCTCAAGAT	GGCTTCCTGC	ACCTTTGCTC	CTCTAGCCTT	GTATGTATAC	AAGGCTAGCA
28861	TGCCTGGCAT	ACATAAGGTT	AAAAACAAAA	TCAATAAGTT	ATGGTTCTTC	CTCCAGTTCT
28921	GGGGATTATT	AGACCACTTT	TTTGTTTTTGT	TTTGTTTTTGG	ATGGAGCCTC	GCTCTGTCAC
28981	CCAGGCTAGA	GTGCAGTGGC	ACAATCTCGG	TTCACTGCAA	CCTCTGCCTC	CTGGGTTCAA

Figure 1 (Page 9 of 73)

29041 GCAGTTCTCT GGCTCAGCCT CCCACGTAGC TGGGATTACA GGTGCCCCGCC ACCACGCCCCG
29101 GCTAATTTTT GTATTTTTTAG TAGACGGGGT TTCACCATCT TGGCCAGGCT GGTCTTGAAC
29161 GCCAGACCTC GTGATCCACC CACCTTGGCC TACCAAACCTG CTGGGAATAC AGGCGTGAGC
29221 CACCGCGCCC GGACTTAGAC CACTTTGTTT TGGCCAATAG GACAACAGCC ATAGAACCCT
29281 CCGCAAATGA GAGCTTGTC CTAAGATGC TTTATTTACA TAGCTGTGTG CCGCATGAGC
29341 CAAAAGGTGA TAACCTTTGT TCAACACGCG CCTCCAGCCC TTCGGTTAAG TCCAAAGTAC
29401 CATTCTTAGA ATGCTCTAAA ATACATAATT TTTTTTTTTT TTTTTTTTTT TTTTTTTGAG
29461 GAGTCTCTCT CTGTCTCCCA GGCTGGAGGG GAGTGGCGCG ATCTCGGCTC ACTGCAATCT
29521 CTGCTTCCGG GCTAGCTGGG CCTACAGGTG CAGACCACCA CGCCCCGGCTA AGTTTTGTAT
29581 TTTTTTTGGT AGAGGGGGTT TCACCATTTT GGCCAGGCTG GTCTCGGATT CTTGATCTCA
29641 AGTGATACAC TAGCTTTGGC CTCCCAAAGT GCTGGGATTA CAGTCGTGAG CCACTGCGCC
29701 CAGCAAAATG CTTTTTGTGG AGCCAATCAC TTTATTAGCG CTTACCTCTC TATGCCCTACT
29761 TTATGCTTTG AAATTTTGTG ACAGTTGGC CGGTCATGGC AAACACAATT CATTCTTATG
29821 CAGGATGCTA CGGTTATTTT TGTCATGCCA ACTCATCTC GCAACGCATT TCAGCTCTTT
29881 AAACGACTTT GTGAGCGGCC CTGAAAAGGG CTTTTGGGTT TTTTTGTTTT TGTTTTTTGA
29941 AGTTCTCAGG AGACCGCGTA TTCTTAGATT CAGCCGCCGA AGCCATACAG AGTGCGCCCC
30001 TGACGTTTTA GGGCATATAC TACATCCATG GCTGTGACAG TTTTGCGCTT GGCGTGCTCC
30061 GTATAGGTGA CGGCGTCTCG AATAACGTTT TCTAAGAAAA CCTTAAGCAC ACCTCGAGTC
30121 TCCTCATAGA TAAGACCGGA AATGCGCTTG ACGCCACCGC GCCGAGCCAA ACGGCGAATA
30181 GCCGGTTTTG TAATGCCCTG GATGTTATCC CGGAGCACCT TACGATGGCG CTTAGACCCA
30241 CCCTTCCCCA AGCCTTTTCC GCCTTTGCCG CGACCAGACA TGATTCTTAT CGCAGTGGA
30301 GGTATGAAC TAAACAGTTC CTTAAATACA AACTTGGCGG ACCTGATTGA AAACAACATG
30361 AGTTGGCGCG GTTTTTTTTT TTTTTCAAAT TTGGTCACCA AGTGGGTGGA GCAAGAAAAA
30421 CTGTTTCATT ATGGTTTCAAT GTTTTGATTG GCCAGTGACA GCTTGCTCTT TGTGGGAGTG
30481 GAAGGGTGTT TGCAAGTTGA ATGCGCTGTA TTCTGTGACG CTTAATGACG CTAAGCATAG
30541 CCCCATTTCA CATTCTTTTT TATTTCCACT TGCTAACTAA TAAATTACGG AATAGTTTAT
30601 TGGGGAACAT ACAAATAATG TTAAAGGAG GTCAGATTTA TAGGTCAAGG GATTTACCCCT
30661 CCCAATCATT TTAATATTTT TATTTAAACC AGGCATTTTG ATGGCCTTCT CTGTGCTGGA
30721 CAAGGTATAA GTTTGGCTAT GAAGTTTCAC TCCTAAAGAC CCTATGTTTT GGGAAGGCAA
30781 AAAGGTAGCC AAATAATTGC AAATAAAAC CTCATAAGTG CAAACTTCTT CCTCGTCACT
30841 TTCCCTATCT CGATTCAAAT ATTTGTTGAA TGACTCATTT TTCTGCAAAA GTCTGAGAGA
30901 GACAGGGAAT ATAAACTTAA GTCTGGATAA TATGTTTTCC CGGGACGCTC TTCTTGGTCT
30961 GCTGTGCCTG TTTGCTGTGC CTGAAATTCC AAACACTCTT CCCTTCCCTC CGTTTTTAAT
31021 CCCCTTTCAA CTTGCTACAG CTTTAGAGAA AAGAACATTC GTTTTGTTACA GTTGGGGATT
31081 AATTGAAGTG TAGGGCTAAT ACTTGATTAA GGTCAATTACA AAATCTACAG GGTCTTCCTC
31141 TGGGAGGTTT TTGTGATAAG ATTATTGGTG TTAATAAAG GCTAATCCCC TTGAAAAATA
31201 AATAGAATAG CAGAATTGGG TCTGAATGTG GTTTGAAGAA AGGGACTTCT CAATTCAAAA
31261 TTTTATTCTT AGCTTCCTGC GGGAGCTTTC CAGAATGCCC ATAAGATCCA CTTTTGTTTA
31321 AAAAACAAAA ACAACCCAC CCACCACTCT CTGGTTAATA AATGAATTTT TATTGGGAAT
31381 ATTTAGAATG GGGCTGTGGC CTGTGAGAGA CATTATATAG TAACCTCAGA CTTGCTCACA
31441 TGAAGAGAAG AAATCCAGGA ATGGAGAAAA AAGACCCAGG AAAGGCCAGA ATGCTCTACA
31501 TGTCATATTG TTTGTATCAC TTCTGAAATA ATTGATTACA TTCTTCTGCC CCAAATTGAG
31561 TTCTTAGGTT CTTCCTACTA CTGTCCACAT GCCACAACAC AGACCTTATA ACTAGAGACT
31621 TAGCTAGGAA GAAATGTCAA ACATTACAGA GAAAAAATGC AGAGTCTGAG ATCATAAGTA
31681 AAATCTGAA ATCTCAACAT GCCTTTTAAT TCATGAAAT AAAAAATATA GCAGCATATG
31741 CAATATGACA ATTCTCTGAA AACATACATC ATGTGAACTA CCCTGGAACA CATCTCGCCA
31801 AGTGCCATCT TCATTTTAAC CAGAGTCTTA GGATGCCCTT CTTTATTTT GCCTATTATA
31861 TCATTTATAA AACCCCATTT TTATTTTGAT ATTTTATTTA CTTTCTATTT CTTGCTCCTA
31921 ATATCTCCTT TCTAAACTTT TCTCAATGAC AGTGACTCAA AAACAATGAA TGTGAGAACA
31981 AATATTTAAA GGATCTGTAC ATGTAGATAT ATATATTTAA AATGGATTCT TCCACTCTGC
32041 GAAGAATTCA GGCATACTCA ATCTTATGGT TAGGGAGAGA TTAGGCTCAC TCGCCTAATC
32101 TGTATGGCTT CTCGTTCTGCT TTCCATTTCA CCTTCTCTC ACCCATCAGA TCAAACTCAT
32161 TCATTGAACA AGAGACCTAA GCCCTTCAGA TTAATACTCT GCAAACAAGT TGTGGTTGAG
32221 AGGATACATG AAGCATTCAA ACAAATAAAT CTATGATATT AATCAGAGGT TAATCTATGA

Figure 1 (Page 10 of 73)

```

32281 TATTAATCAG AGGTTAATGC AGTGGCTCAC GGCTGTAATC CCAGCACTTC AGGAGGCTGA
32341 GTTGGGAGAA TCGCTTGAGC TCAGGAGTTC AAGACCATTT TGGGCAACAT AGCAAGTCTT
32401 CATCTCTACT TAAAAAAAAA TAACCAGAGG TGTATGAAA ATATAAATTG TCCAGAACTA
32461 CCCTCCACAA ACTAACTCTC TCAGAATATT CGATATGAGG AATGAAATAT GGTGTGTGTG
32521 TGTGTGTGTG TGTGTGTATG TGTGTGTGTG TGTGTGTGTA TGCACCTATA TATGGCACCT
32581 ATATATTCAA CAAACAATTC TGATAATTGG CCAGGGTTGA GAATGACTAG CAGCCCAGCA
32641 TACACTATCA GTTTTAAAGTA TATAATTGCG CTTTAGTAAA ATGTAAAGAA ATCCCAGAGT
32701 AGAAATACTT TTAAGCTATA TTACAGGTGA GAAAATGCAT AAGTATAGTC TCACCCAAC
32761 TAGACTATGG GGGCTTTATA ATGTCACAAC AGTTGTTTCC AGGCATTTGG GGACATCACC
32821 ACTGGTCTTG GGCAAGAAAC TCCTCTAGCC AATGGCTGAT TTATCTCACT CCCATCTAAG
32881 GCTTCACTGC ATTTCTCTTT TTCAGCAACC TAACTTATTT AAAAATATCC ATTTTCTGAT
32941 TCATTTTTTT CTGAATTAAA CTGTCAGTAC CATTGGCACA CTTTGGTTC CGTAGCATAC
33001 CTGTGTCTCT GCTGTGTTTT TTTTCTACCT CCACCTCTTA CTTTCTAGA AAAAAATCTC
33061 TGCTTTTCT TTTCAAGTTA AATTATTTCA CAAAAGTTT TCTTGACTTG CACTTCCTAG
33121 GCTTGCTGTC CTTGTGTGGG CACGCTCCCA TAAACACTAT TAATACACTT CGATTTGTTA
33181 AAAATAAAGA TATCTGGACA GAAAATTTCT TTTCTTTTTT TAAGATTTTA AAATTTTTTA
33241 TGTTTATTTT TTTCTTAGAC TGGAGTACAG TGGCACCATG ATGGCTCATG GTAGCCTACA
33301 CTTCCCCGGG CTCAAGTGAT CCTCCACCT CAGCCTCCCA AGTAGCTGGG ACTACAGGTG
33361 TGCACAACCA CACCTGACTA ATTTTGTTTA TTTGTTTGT TTGTTTTTTG AGATGGAGTT
33421 TCGCTCTTGT TGCCAGGCT GGAGTGCAAT GCGGGATCT CGGCTCACC CAACCTCTAC
33481 CTCCAGGTT CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAT TACAGGCATG
33541 CATCAACACG CCCAGCTAAT TTTGTATTTT TAGTAGAGAC GGGGTTTCTC CATGTTGAGG
33601 CTGGTCTGGA ACTCCTGACC TCAGGTGATC TGCCCGCTC GGCCTCCCA AGTGCTGGGA
33661 TTACAGGCGT GAGCCACCAC GCTCGGCCAC TAATTTTGTA TATTTTGTAG AGATGGGCTT
33721 TCCCTGTGTT GTCCAGGCTG GTCTTGAATT CCTGGGCTTA AGTGATCTGC CCACCTTGTC
33781 CTCCCAAAT GCTAGGATTA CTGGCGTGAG CCACCAGGTC TGGCTGGAAA GATAATTTCT
33841 AACATTATCC TCTCTTAAAC ATTTGTTTCA AAAATTTTAC AAACATGAGA GTAATTAAT
33901 TTGATTTTCA AAATTCCTT GAATACTTTC TTAATAGCAC ACAGAAAGCA CAAAGTATTT
33961 TACATTTGTT TTAATGATGA AATTGTGAAC CCAAACCTAC ACAAGAAAA ACCCGTAACA
34021 TTATACCCAT ACTTAAACA GATGCCCTCA TATACATAGT AAAACTCTTG GGGGCAGTAG
34081 TGAAGTTGGT TATTACTGT TTTATGAAAG TGCCATTCAG CCGGTGCAG TGGCTCATGA
34141 CTGTAATCCC GACACTTTGG GAGGTGAGG CAGGCTGATC ACGAGGTCAG GAGTTCAAGA
34201 CCAGCTGAC CAAAATGATG AAACCCTGTC TCTACTAAAA ATACAAACAT TAGCTGGGCG
34261 TGGTGGTGTG TGCTGTAGT CCCAGCTACT CAGGAGGCTG GGGCAGGAGA ATCGCTTGAA
34321 CCTGGGAGGC GGAGATTGCA GTGAGCCGAG ATCGCACAC CGCACTCCAG CCTGGGAGAC
34381 AGGGCGAGCT CCGTCTCGAA AAAAAAAAC AAAAAAGTGC CGTCATAGTG ACTCAGTTTT
34441 AAGGAATAAA TCAAGGATAT TTAATCAAT AGACTACAGT TAGCTAACGT GACTTGCACT
34501 GAAAGTTATA CGAATATTGG TACTTATTC CCTGCCCCG AAGTATGAAT TAAAGACTCC
34561 AAAATTCCTT TTAGAATCTT CAGAGTAAAA GCTAGAATTT GATTTTTTTA AATAATAAAA
34621 AAATACTTTG TATCTAAATC TGGTGTATAA AATAACTTGG TGGATGATGC TTCAAGGCTA
34681 TCCATCCCCA AATTTCTCCC TGAATGATAA AGAGAATAAA TGAATATGTC AATTCAAAAG
34741 TTAGAAATTT GGCCGGGCAC GGTGGCTCAC TCCTGATAAT CCTTTCGGAC GCTGAGGTGG
34801 GTGGATCGCA TGAGCTCCGG AGTTCAAGAC CAACCTGGGC AACATAGCCA GAACCCGTTT
34861 CAATAAATAA TAGAAAAAAA TGAGCCAGGC GTGGTGGTCC CAGCTACTCA GTAGGCTGAG
34921 GTGGGAGGAT CACTTGAGCT CAGGAGGTCG AGACTGCAGT GAGCCGTGAT CGCAGTACTG
34981 CACACCAGCC TTGGTGTGCT ACTGAGACCC TGTCTCAACA ACAACAAAAC AAGTTAGAAA
35041 TTTGGCTGGG CGCGGTAGCT CACGCCTGTA ATCCCAGCAC TTTGGGAGGC CAAAAGGGC
35101 GGATCATTTG AGGTCAGGAG TTCGAGACCA GCCTGGCCAA CATGGTGAAA CTCCATCTCT
35161 ACTAAAAATA CAAAAAAAT TAGCCGTGCA TGGTGGCATG CGCCTGTAGT CTCAGCCACT
35221 TGGGAGGCTG AGGCAGGAAA ATTGCTTGAA CCCAGGAGGC AGAGGTTGCA GTGAGCCGAG
35281 ATCATGCCAC TGCAATCCAG CCTGGGTGAT AGAGTGAGAC TCCATCTCGA GAAAAAATAA
35341 AAAATTCCTG ATGAACGTAA CAAAATATCC TTAAATTTTA AAATACATCT GAAAGATATT
35401 TCAAAATATT TAGGAAAAAA ATTATAGGGA TCAGGCAAAT TCTGAGATTC CTTTTTCCCT
35461 GCAGCAAACA TTAGGAGTGC TGCTGTTCCT AAAAACATGG TAACTGTTGC CACACCGTAT

```

Figure 1 (Page 11 of 73)

35521 GTTTCCTTGG CTCAGACATA AGGTTGTGTA GTTGTATTTC CAGAATAGCT AGAATAAAAA
35581 TCCAGCACAT CATTTTCTTC AGCAAGTTAA CTAACCTCTC TGTGCCTTGG TTTCATAACA
35641 GCAACATAAG CATAACAGAA TAGCAGCAAT AGCTCCTACC TACCTCATAA GATTCTTTGG
35701 AGGAATTAAA TTAAGATTCA GAACACAGCC TAATATCTAG TAAGTAATAA TAATTGGCTA
35761 AAAAAATTTT CTTAAGATTA TATATATTCA TGGGGTACAA GTACAATTTT GCTACATTAA
35821 TATATTGCAT TGTGGTGAAT TCAGGGCCTT CAATCCATCC CGGAAAAAAA AAGTTTTTGA
35881 AAAGATTTCT GCCATGGAAA ACTTTTAATG TACAAATTCA TCCATCCAAG AAATAGAAAA
35941 TATATAAGTA TCAACTCCAA ATCCACCATA TCTATCTCTT CTACACCTTA AACAAATTACT
36001 CAGAAATAGA ATGCTTGAGA TACCAGAATG CATGCATATC AAGTAATAAA TGCATGCAGG
36061 ATGTCAACGC ATCCTAGGCT TTCAAATAAA ATTGTCATAC AAAAATACTTT AATATTGTAG
36121 TAACATTCTA CATGTTAGAG TGTAGAAGTT AATCGCTGAT GCAAAAAAGG AAAAGAACAC
36181 ATTATACCCA AAGCCTACAG AGAGAATCAC AATTACAAAT ATCAGCCTGC ATGTGAAAAAT
36241 CTTTAATTTG AAAGTCAGAA ATATTAAAT GATAGTCATT GTTAAATCAG ATTGTGGTTT
36301 GAAAAAAGT TAGTTTAAAA CTGAGTTTAT AATAAATTTG GGGATTTTAG AGACAGTGT
36361 TTGTTTTTAA ATGTGTGTGA GTTTGTGAAG AATGTTTTAT AAAATACTGA CAGTATTATA
36421 AGATGACATT ATTATAATAC AACATAAGAA TTTTGGCCTG TACCTCTCAG CAGTCTCAG
36481 TCACCTGCTG TACTTGACTC AATGATTATC AGAGTGGTTT GTTTTCCTTC TGTGTGTTC
36541 CCAGTTCAGG CAGCTCAGCA ATGGCCTGTG ATTCCAGCAA TTCAAATAGC TGGTAAGTAG
36601 TTTCTTGTTT GTTTTCTCAA ATTTTCAGGG GCTTTTCTCT ACAAGTGATT TCCAGTGCAC
36661 GCCCCCTCAC CCATTCTTTA TTCCTTTACC TTCAGGAAAA CCCTCAGCGC TGCATCTCTG
36721 GTCACCGGAC CACCGTGGTA CATTTACCTA TGGCCACCAG GTGTCACCTT TCTCTTTACT
36781 ACCATGGTTT GTGAATGGTT TTGCCAGAGG TGAATAAGAA TTTAAAATGC AGGTCCTTGA
36841 TTTTTCAAAT GTAGTTGACC TTAAGAATTT ATGAATAAAG CCAGAAAAAT TAAGCTTAAA
36901 AAACACCGAA AGAAAATGAG GACTTAAAAAT TTCTATTAAA AAAATTAAAC GGCCACAGTT
36961 GCTGATGTTT AGTAAATGTG TTAGTGAAAT GTGTTACTGT GAAGACTGGG GTGTTTCTTG
37021 AAATCTCAGC CCAGGTGAAA TAAAACCAAT ATAAAACAAA TGCTTACCTA ATAAATTAAAT
37081 TGTAACATAT TCCTTATGAG GTAGAAGAGT AAGTGAAGCC TTATAGCAGT CTGCTTTCAG
37141 TATAGTAAGA TATTAAGAGA GAAATAATTT GTCATATGCT TTCAGAATGG TTTGCTGGTA
37201 AAATAACCAA TGTCTTACAA CTTAGACGAC AATGTCCCTA GAGTGAAGAA ACACGATTAA
37261 TTCGGTACC ACAGTTGAAT GAAAATATTC CGTAAGACAA AATGTAAAGA AATTAGAAGC
37321 AAAATAAATG TCTCCAAAAT GACAAAGCGA TTAAGTATAT ACACAAGATG AACAAGAACT
37381 TCAATAAAAT CATGCAGTAT ACAATACAAT ATACATTTAT TAAAGTATAT GCATTTTAA
37441 TGCAACAATA ATACTAACAG GTAATAGACA AGTTGTTAAT AGTTTTTCAC TGGCTAATTA
37501 AATAACAGCT TTAATTGTAT TCATTTTATA GCTTTTCTAC AATGAGCGTA AATCACATTT
37561 ACTTTTTTCT ACATAACTTT TCTAACCACA AAAAAAGAAA ATGGTTTAAA AGAAGAGATG
37621 AGATATCTTT GCTAAAATTT AATGCCTAAA GAAGAACTT CTGAGCTGTA TATGGTATCC
37681 TGAAGCACCT GCCCTTCAAG ACAGAATGCT TGTACCACAT TTATGCAGCC AAGTGCATGT
37741 AGTAACATAA AGTAAACACA TGCCATCTGG ATATATATAT TAAGACTCTT TTGACGGCTG
37801 GGCAGGGTGG CTCACACCTG TAATCTCAGC ACTTTGGGAG GCCGAGGCAG GCGGATCACG
37861 AGGTCAGGAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCCTGTCT CTACTAAAAA
37921 TACAAAAATT AGCCGGGCAT GGTGGTGCAC GCCTGTAATC CCAGCTACTT GGGAGGCTGA
37981 GACAGGAGAA TCGCTTGAAC CTGGGAGGCA GAGGTTACAG TGAGCCGAGA TCATGCCATT
38041 GCACTCCAGC CTGGGCAATA GAGTCTCAA AAAAAAAGAA AGACTCTTTT GAACATGGTG
38101 AACTGATTTT CCAGAATCTA GCAATTCTCT AATGTCTTGG TTAGATTTTT TTTTAAATGT
38161 GCACCGGAAC CCCAGTGGCT CCATGGAAGG ACCTGGGCAT CCTCTAAGCC ACTTGGTGGC
38221 TTCCATTATA CCATCTCAA ATGAGAGAGC TTACTCCACT TCATTGAGGG AAATACCACC
38281 AGAGTTCTGA CTCCAGAGGC ACTGGCCTAG GGAGGACACC GTGTGTGAAG CCCAGCAGG
38341 CCACTAGCTG TCCCCACCAA TTACAGTCTT TGCGTAGGGT CCAAAGAAAT GAATGCCAAA
38401 GAGAGCAACA GAGGAGCAAG GGAGTCACAT TCCAGGACCT TCCTTCAGGG ACTTTTAAAG
38461 GAAACATGAC AGCTGAGGAT CAGTTGGTTG TTTTCTGCTG TTCCCCCTCA TGTGATTCAA
38521 GCTCACTCAG AAGAAACACA ATGAGACAAG AGAAGAGCCA TCTCCTTCCT TCTCTATTTA
38581 TTCTAGGCAT CTAAACTACT GAATGTAGTG GTGTCTGAGA TGTATCAAAC GGTGAGATTG
38641 ACTGAGTTTG AAACCTGTTT CTATCACTGA CAAACTATGA GATACTCTAT ACTTCACTTT
38701 CTTTTTTTTT TCATTTTTTT ATTTTTTATT TTATTTTTTT GAGATGGAGT CTCACCTCTG

Figure 1 (Page 12 of 73)

38761 CACCTAGGCT GGAGTGCAGT GGCACAACT CGGCTCACTG CAAGCTCTGC CTCCTGGGTT
38821 CATGCCATTC TCCTGCCTCA GCCTTCCGAG TAGCTGGGAC TACAGGCGTC TGCCACCACG
38881 CCCAGCTAAT TTTTGTATT TTTATTAGAG ATGGGGTTTC ACCATGTTAG CCAGGATGGT
38941 CTCGATCTCC TGACCTCGTG ATCCACCCGC TTTGGCCTCC CAAAGTGCTG GGATTACAGG
39001 CGTGAGCCAC CGTGCCCGGC CTACTTCACT TTCTTCATTT AAAAAAGAAA TGGGGATAAT
39061 AGTACCTATC TCATAGAATT ATTGTAAGAA GTGCATGCAG TAATGCATGT AAGTAGGTGC
39121 TCAGAAGAGT CGGACACGAA GTAAGTGCCT TTATCATCCT TATCATAATT TTCATTATCA
39181 GAACAAGGAG AGACCAGGTA GAAAATTATT GTGATTCCTC AGGTCTGGAA TACTAGAGTA
39241 GCATCCCAAA TGAAGGCACC ATTAACCTTT GCAAATCTGT ATGACACCTT CATGCCAATT
39301 AGAAAAAACA CCTCTTCACA ACCCCTTTCA AGATATTTGC CTCCTACCTG CTAAAAACAC
39361 CCATCATACT ACCCACAGAT AGCCATGATG CTTTTTCTGG GACAGGTGCC TCTTCCATTC
39421 GTGCAGTGTG CAGCCTTCAT AGCTGTGCAA CTCACATCAC AATCAGATGG AAGAATCCCC
39481 AAGCGTTGGT TACTTGGGTA TTACTGGGTA ACACAGAGAG AGGATTCAA GGAAAAGTTG
39541 AACGGGTCCA GAAAATGCAT AGATACATGT GTAAAAATCT GGTAAGGTTA TGATAGCCCA
39601 CGTCCCAGGG TTCAAAGCTT TTCTCAGATG TTAATAATGAA TCATGTAAGT CCCCCAATT
39661 TAAGGAGTCC TCTTCCAAAA ATAGGAAATG AAATGACATA GGTGTATGTC TCTGAGGTGA
39721 CGGAGGAAAT GAAGGAAGCC TCTAGATGCA GCTTGAGGTT CATGAGAGAC AGTTCACGGG
39781 GAGAGGTCAC AGCTAGGGAT CACCGGCATG CAGGAACCTCA GAAACCTAAA TGGGGAAATC
39841 TTTTGTAGGA AATGAACAGA GAAGGCTAAA ATCAAGGAGT TCGTCAGGCA ATTTCTATGT
39901 TTAGGTTCAA CTCTCTCCTG AAACATGAAG AGCTCATAAA TGCACCTCCT CTTTGAGTCT
39961 CTAGTTTTGT CTCCTTCCCA CAGTGAGTCT GCAGGCTGCG TGTCACTCAC GTTCAGCTAA
40021 GACGTAGTGC CCCATGGCTC CTCTGTGGA GACAAGAGAC CCAGGAAAGA GGCATCACAA
40081 ACCTAGGCAC CATCTTGCTT CTTCTCTCTT CCTTATTTTC CTCATTACCC CATCTCAATT
40141 TAGACCTGGG CACTATTGGA TTTCAAGAAC CATTATCTCT CATCTGGAAT TGCTTATTGG
40201 CTTTCTAACT GGTCTCCTCA CCTCTCATCT AACTTCTTAA CAACACATTC ACCATATAAG
40261 GGAGATCGTG GTCCTCCTTT CTTAGGATCC TTCAATGACA CCCCAGTGAT CATAACCCAA
40321 TATCCCAAAA GACCCTTGGA CTCTGTATGA GCTGGCTTCT TTCTGATCTT CTTTCCCTA
40381 CACCACAGAT GTTCAGGGGG TAGAAATGCA TAATTGGTGA GTGATAGCTA CGCAAACCTCA
40441 GGGTTAAGGT ACAGTAATTA TTTCTAATCT CCCAGTATGC CTTATACTCT CCTACTTGCC
40501 ATGGTTGCTC CGTCTGTGTA GACCTCCCAT CATCTTCAAC CTCACCTAAT GGAATCCAGC
40561 TTCTCCTTCA AGATCCAGAA GGCTATCTTG ATCCCCAGCT GAATGTGATC ATTTCTTCCT
40621 TTGACACCTT AAGCATTTGC TTCTTGCTTG CTTTAGGACC TCATGGGGTC TTTCTTAACT
40681 ACATTTACTT GCTATCAATT TCATTCCTTA CCAGATTTGG GTTCTGAGAA TAGCCACAGT
40741 GACTTCTCAA CCTCAAAGCC CCTGTACTAC CTTAAACAGC TCTTGCAAAA TAGTAGGTGC
40801 TCTGAAGATG TTTGTTGAAT TAGAGACTTT CATTCCTGGG AGAACCATTA TTTTCTGTCT
40861 CCCAGGGAGC TGCTGGTGTC CCCAAAGAAT ATAAATGAGA AAAATGCTTC CCATGGATGC
40921 CAGATCCCTT CTGCCCCCTT TCCCCTGTG CCCTGGGGCA GAGGTACTAA GAGACTTCCC
40981 CCTTGTTCTT ACTCACTTGA ACCCTGCCTC TTCCTTAATA TTATGAACAA AATTCCAATG
41041 AACAAGATGA CGACAAAAAC AGCAATTCCA CTGATGACTC CAATGACTAG GGTGCCAGAC
41101 GGTGAGGGCT CTAAAACAGA AAAAGCAAGT TAAAGCCTTT GATTGCCACC CTCAGCCAC
41161 CCCCTAACAA AGAGCAGATC CTCATCTCAC TGCCATAATT ACCTCCTCAG GCACTCCTCT
41221 CAACCCCAAA TAGATTTTCT CAGCTCCTGG CTCTCATCAG TCACATACCC CAGATCACAA
41281 TGAGGGGCTG ATCCAGGCCT GGGTGCTCCA CCTGGCACGT ATATCTCTGC TCTTCCCCAG
41341 GGGGTACAGC CAAGGTTATC CAGCCCTGGT AGGTCCCATC CCCATTGGGC AATACGTCTT
41401 TAGGTTTCGA CTCCTTGGA TCCATTGGCT GCTTATCCTT CAGCCACTTC ATGGTGATGT
41461 TCTGGGGGTA GTAGTTCAAG GCGGACACC GTAGAGTGGT CACTGAAGAG GTCACATGAT
41521 GTGTACCTT CACCAAAGGA GGCACCTGAC AGGAAAGAGG AAGGATGAGG AGAGGGGATC
41581 TGTTTACCCT TGCCAGGAAG ACTGGAACCT TCACTTCCTT CTATAGGTTG GAGGAAGGAA
41641 ATACCCTTTT CAGAAAAAAA CAAGCTACAG GAGAGACACC ATTTTGTGTC CTAAGATTGG
41701 ACTCTAACAC AGTGTCACTT GGAGAGCAGT CAGATCAGCT TGTCTCCTC ACATGTAAAT
41761 ATACATATCT GTTACCCATG TTCTTTGTTT TGATAGATAA AATTGCCCTT TATGTGCATT
41821 GAAAATGATT GAATACAGAT GGTCAGTTTC ACCTGGGTCA ACCTAGGAGG CATTTGTATA
41881 AGAAGCGGAC TTGTAAGATA GGTAGCTTCA GTGATTATTG CTATGTTCTA TGAAAGAAAC
41941 TTTTAACCTA AAGGATTCTT CTACTCTGAT AAGTGGCCTC ACTTGATATT TTGTCTGGT

Figure 1 (Page 13 of 73)

```

42001 ATTCATATGA TAGCTGAGAT CTCTGAATTC TCTTTTTTTTT TTTTTTTTTT TTTTAAAGAT
42061 GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT CAGTGCAACT
42121 TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT GGGACTACAG
42181 GTGCGCATGA CTGTGACCAG CTAATTTTTG TATTTTTTTA GAGACGGGT TCACCATGTT
42241 GGTCAGGCTG GTCTCAAAC CTGACCTTG TGACCACCCG CCTCGGCTC CAAAGTGCT
42301 GGGATTACAG GGGTGAGCCA CCGTGCCCG CTTGACATT TCTGAATTT TAACAGGTAT
42361 AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT TCCCTTTGAG
42421 CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTGTG GCTGTCTCAT ACATCTCAAT
42481 TATAAGGTAG AGACTCTAGG ATTGAGAAAG TCCCTTCCCA GAATTTGGAG AGGCACACAG
42541 CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCGGTGCC CTGCAACCTC CTCCACTCTG
42601 CCACTAGAGT ATAGGGGCAG AAGTGTGTTT CCACCATACC TTGTTGGTCC AAAACACCTC
42661 TCCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG TAGGCCCTGT
42721 TCTGCCTGGC CCGAATCTTG TGCCTTTCCC ACTCCAGCTT GGTGGGCCAG GCCCTGGGTT
42781 CTGCTGCTCT CCAATCCAGT GTGTCAAGGC AGAATTCAAG GTGGTCTTGC CCATCATACC
42841 CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTTCTTGCAT TTCACAGCCC AGGATGACCT
42901 GCAGGGTGTG GGACTCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA AGGAATAGGT
42961 CCCTATTTCC ACCATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTCC TTCCCTCTTC
43021 CCTGCTCCCA CAAGACCTCA GACTTCCAGC TGTTCCTTC AAGATGCATG AAAAGATGAA
43081 AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCCTCTCCAC ATACCCTTGC TGTGGTTGTG
43141 ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCTT TCAGACTCTG
43201 ACTCAGCTGC AGCCACATCT GGCTTGAAT TCTACTGGAA ACCCATGGAG TTCGGGGCTC
43261 CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT AGCCCAAAGC
43321 TTCAAACAAG GAAAGACCAA GGTCTGCTC TGAGGCACCC ATGAAGAGGT AGTGCAGAGA
43381 GTGTGAACCT GGAGACAGAG CAACAGGCC TAAACATGTG TAGTAGGAGG GGAGCAGGAT
43441 GTTGAGGCTC CACACACCTG CATCAACTCA TACCATCAGC TGTGTCTGGT CCTCATTTTG
43501 TGAAGGGTGA GTTGCACTCC TGTCTTCTT CCATATGACA GTCTGGGTG CTCTTTCCTT
43561 GTGTGCTTTT CTCTGCCACA CGTGGCTGCC ACCCCCTCAC TGCCCCCAGA TCCTATTCCA
43621 ATACTCATGA TTAGACAGAC TCCACTAAAG CTGGTGGATT CTAGAAAATG TTAAGGTGTG
43681 TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTGCTCAGGG CAAATTAGAC CCAAATCCTG
43741 AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTTTGAGA CAGAGTCTCA
43801 CTCTATCACC CAGGCTGGAG TGCAGTGGCA CAATCTCAGC TCAGTGC AAC CTGCACCTCC
43861 TGGGTTCAAG GGATTCTCCT ACCTAAGCCT CCTGAAAACC TGGGACTATA GGCCTGCGCC
43921 ACCACACCAG GCTAATTTTT GTATTTTTAG TAGACATGGG GTTTCACCAT GTTGGCCAAG
43981 CTTGTCTCAA ACTCCTGACC TCAAATGATC TACCTGCCCT AGCCACCAA GTGCTGGGAT
44041 TACAGAAGTG AGCCACCGTG CCCAGCCTTG GTCCTGAATT CTTACACTGA ACTGCCATG
44101 TGGCCTCACC ACTTGGAAGC CTGACTGGAA TCTCAAACCT AACATGTCCA AATGCAGATC
44161 CTTGATTTAC CCCAACTGC TCTTCTCTCT GCCTTCACCA TCTCAGAAAT GGCATTGCCA
44221 ATTACCCAC TGCTCAGGCC AATAAAATTA AAATAAAGAA CAAAGTCAAC TTTAACTCTT
44281 CTCTTTTTCA GGGGGTCAGG GGAGACAGGG TCTTGCTCTG TCACCTAGGC TGAAGTACAG
44341 TGGCACAGTC ATGGCTCACT GCAGCCTCAA CTTCTGGGGC TCAAGCAATA CCCTCCACCT
44401 CAGCCTCCCG AGTAGCTAGG ATCACAGGTG CATGCCACCA CACCCAGCTA ATTTTGTAT
44461 TTTTGTAGA GAAGGGGTTT TGCTGTGTTG CCCAGGCTGG TCTTGAACCT CTGAGCTCAG
44521 GAATCTGCTC TCCTTGGCCT CCTCCTTGGC ATGAGCTACT ACACCCAGCC AATTCCTCTC
44581 TTTCTCTCAC ACAACATAGA ATCCTTCAGC AACTTCCTTC AGAATATATT CAGGAGACAA
44641 TGGTTTGTCA CTCCCTTTTC TGTTCCCACC CAGCCCACTC CACTACCTCT TGCCCTGGACT
44701 GTGTAACAGC TTCCTGGCTG GGCTCCCTGC TTTTACTGTT GCTCCCTTCA TTCCTGCTTC
44761 CACATAGCAG CCAGAGCAAT CTTTTAAAAG CCTGTGACAG ATCACTGTTA CTCCTTGGCT
44821 AGAATTACACA CCACAGCCTA CAGGCGCCTG CACAACCTTG TTTGTGGCTC CTCTTCTGAG
44881 CCCATTACCT ACTTCTTGGC CTCTACTCCC CAGCACTACT TGTTTATTTT TTTCAACCCG
44941 AGCTTCTTAA CCAGGAGTTT GTCTACTAGG TGACATGTGG CAAAGTTTAG AGACATTTTT
45001 GGTGTCAAG ACTGGGGGAG TGCTCCTAGC ACCTAGTGAG TAGGGAGGAC AGGATACTGC
45061 TAGACATCCT ACATGCAGAT GGTAGTCCCC CTTCCCACCC CCACGCCGCC CCCCCCCCCC
45121 ACACACACAC ACATGAGTAG TGCTGAGAAA ACCCGCTTTT TAATCCAAC TGCCAGGCC
45181 ACTCAGTTTG CCTGGGAAAT ACTGCTCCCA GTCAATATCA TTCTTATTTT CTTTATGCTC

```

Figure 1 (Page 14 of 73)


```

45241 CTGCTCAAGT GTCAGCCCCA GAGTGACTTG CCCTGACTTC TCTGCTTCTC ACAACACCCA
45301 TGATTTCTCTG ATGTTGTATA TCTTTCTGCT CATTTGCTTA TTGTCATCTC TCCCCTAGTA
45361 ATGCAAAATA TCAAAGGGTA AAGACTTGTT TCCCTGCTCT CTCCCTTGGG GCTTGAACAG
45421 TGCAACACAT GGCTGGGACT CATTTACACT TGTAAACAAT GAATATTTCT GCTCAACATG
45481 AAATTTTATT ATTCAACCTC TAATGCAGTG TGATGTTTAA GAATCATAGC TATGAAGTGG
45541 AGACATGAGC TCTGCCACCA AAGCCCAGTG TACCATTGAA TAAATTTGCC AGGAAGCAGG
45601 CCGTGCCATG CCTCATTCTT GTCATGTGTA AAATGTGGAT ACACGTAGTA CCAAACCTCA
45661 AAGTGCTGTG CTGAGGCCGG CGTGTGACCC ACAGAACACT GTGCTACACT ACAGGGCAAA
45721 ATCACTGTCA ACTAAGATTA GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACCAGA
45781 TTATTTATGT TCTTTGTAAC CTGAAAAGAG TTATATAATC TGAATTCCAG TTAACCTCTA
45841 GTAAAATAAA CGTATTATTA GCTCCTACCT CCCTATGCCT AGTGAAAATC AAATAAGATC
45901 AGATATGAAT GTAACCTAGA AGTGAGTGCA TTGCTTACAT GTTCATTATC AGTACTTTGT
45961 AGAGAGGCCT CTTAATTACA CAGCACATTG CAAATCAATA AAGCCTAGCC GAAAAGAGAA
46021 TTGTTTCAGTT CAAACGTTCA AAATAACAT ATACTTAATT TTCCAGGCAA AAGAACAATT
46081 GCCAAGAGTG GGGAAAGGCC CGAGGTAGGC CTCTCTCAGG AGCCTCCAC CCTAGAGACC
46141 TCCACCCCAG GTCTCACCAA AAGTGGGTGG AATGGTGAAG AATTCAGATC CCCAACGCCA
46201 CTCTTTCGCG CCCCCACCGC CCAACGCATT CGTTCTGAGG TGGAAACCCC GTGCGGATCC
46261 TGCTGTGGGT TTGCTCAGCC TTCTCGGCAA GCACTCAGGG AAGAACTTCC TGTTTGGAGA
46321 TGACTGGGGA AAAAAGTGCA CAGCTGACAT TGGAAATAAA CCCGAGTTCC AGGTTCAAGG
46381 AGCCCCAGGC TTAGCTCAGC TCAAGTGAGG AACTACGAGA TTTATTTAAA AGCATTCCTAG
46441 TTGGGGGAAG GGAGTGGGCG GTTCCAAAAG TCACTCCGCA GAGCCGGGAC AGCCGGGGGA
46501 GGGGGCAGGT CCTGGGGCGA GGGACCCCTA TCTGCAGTTC AGTGGTAGGC ACTCCCTCAC
46561 GGGGTCTGGA CGCAGAAAGT AGGGAGAGGG GCTTGCGGAT AGGGTTGAGC AGGTCTCCA
46621 AAGTTAGCAA ACTCCCAAGC GCAAAGAAAA AGCTAGTTTC GATTTTCCA CCCCCGCCGC
46681 GCCCCTAGTT CGCCCGCAGC CCTCGGACTC ACGCAGCAAG CGCCCTGCA GGACCGCGGT
46741 CTGCAAAAGC ATCAGGAGGA GAAGCGCCGG CCTGGCTCGC GGGCCATTT CCCCAGCTCT
46801 GGCCGCACGT CCCCCTTAAA TCTCCGCTTC TTTTGGGGGG CGGGGAAACG GGGTAGGCTC
46861 CAGAAGTCAC CCTACAGCTA TTGCTTAGGC TCAGGAGATG CCCAGTAAA TCTCCTGGTG
46921 AAAAGCAACA GGTCTTTTCTAG AACTTTAGTT CTCTCTCTCC TACAGCAGAA GGTACCTGCT
46981 TGTGAAACAC TAGGTGATCC AGTGTCCCC TTGGTTTTTA AATCCTGAAG GGGTGTGTGTT
47041 GATTGGGGAA AGTAGCTTCG CAATGTTCTG ATCTGAACTT TAGATATTTA AATATTTATG
47101 ATTTTCAAAA TTCAATCATA CATTTAAAAA TTTTATCTCA ACCTTAGACC AACTTATGTC
47161 TTATTTGACT TAGAAATATA AAGCTTTTTT ATTTTGTTTT TTGATTCAA TTAATTAAGT
47221 CATAACATTA ACCAATTAGA TCCTACTGAA ACACCTTCCA CAGCCTTCAT AATTGAATTA
47281 TCTGACAAGT GTTTCACAAA CTTTACAGTA TTGGGATTAT CTGGAGAATG ATTAACATA
47341 TTGAGGCCTG CTCCTAACCC CAGACACACT GATTTAATGG GTAATTGTTA GGTAGTTAGA
47401 CATTAGCAGT TGGGAGGGGA TGACAGAAGA GAGCGGAAAG GCTGTCACTA AGACAGCCAC
47461 TGGCCACCT AAATTCAGGC CCAAGACTAC CCTAATGCCA CCCTAAGGGA TGGAGTTTAT
47521 GATAAAGCT GTGGCCAAAA TATCCTGGAG AAAGAGAAAG GAGGGTACAG GTGGAAATTC
47581 CCTAAGGTGG CACATGCCCA ACAACACAAA AGCCTGTCTT CAAGTTCACC CCAAGTTCAT
47641 CATGCCATCA TTATAATAGA ATTTACATAC AGTTTTGCCC CCCCATCCCT GGGAGGCTTT
47701 TCTTAACAAA TTATAGGTAA GACCATGCAC AGTTTAATTT TAGATTGTAT AGCTATACAC
47761 TTCAATCAAA TAACATCATC CTGTCACTCA GATACAGCCC AAACCTCAAC TCCTCCCCAC
47821 AAACCCATA AAAGCACCTT GAGCTCTGTA AAGAAGTGCT GAGTTCACTT CGCAGAAATA
47881 AGCCCGCTGT CCCTCAGAGT GTATTATTGT GCTTCAATAA ACTTTGCTTT AAGCTTGCAT
47941 TTTGGTGTTA GTTTGTAGTT CTTTGCTCAG TATCACAAGA ACTGAGATTG CTGGTTCAGA
48001 GCTCCGGCTA TAATAATCTC CTCGGTTAAA GGATCCATCC CAATGCATAA TTCCAGTAA
48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTTAAAAGCT TTCCTTCTCC CTCAACGAAG
48121 TTTGGGAATT ATTGCCTTAG ACATTTCAAA CAATATTAAT AAATTTAATA CACCTGATTT
48181 GCTCCAAACC TTTACATATC TAGCAAATTC AACAGGCATT ATTTTGTAA GCATGTATGC
48241 AAATTTTGGC AATTCAGAA AATCAAACAG GATATCAGGG CCTCGACTGT AGGCAAACAG
48301 ATACAATAAC ATTGGAAACA TGTAGAATAT TGATGATGGG CACATTGGGG CTGATAGTAC
48361 TATTCCTTTT TTTCAATTTT TGGTAAGATA TAATTAGCAT ACCATATAAT TCATCTATGT
48421 AAAATGCAAA AATTGGCCCG GCTCAGTGCC TCACGCTTGT AATCCAGCA CTTTGGGCGG

```

Figure 1 (Page 15 of 73)


```

48481 CCGAGGAAGG CAGATCACCT GAGATCAGGG GTTCGAGACC AGCCTGGCCA ACATGGTGAA
48541 ACCCGCTCTT TACTAAAAAT AAAAAAATTA GCCGGGCGTG ATAGCAGGCA ACTGTAATCC
48601 CAGCTACATT AGAGGCTGAG GCAGGAGAAT CGCTTGAACC CGGGAGGCGT AGGTTGCAGT
48661 GAGCTAAGAT CGTGCCATCA CACTCCAGCA TGGGAGACAA GAGCAAGACT TCATCTCAAA
48721 AAAAAAAAT TAGCTGGGTG TGGTGGCATG CACCTGTAAT TCCAGCTACT CGGGAAGCTG
48781 AGACAGGAGA ATCGCTTGAA CCTGGGAGGC GGAGGTTGTG GTGAGCCGAG ATCATGCCAT
48841 TGCACTCCAG CCTGGGCAAC AAGAGCGAAA CTCCGTCTCA AAAATAAAAT AAATAAAATA
48901 AAATGCAAAA ATTAATGGAT TTTAGTATAT TTACAGAGAT GTGCAACCAT TACCAAAATT
48961 TTACATTTCT ATCTCCCCAA AAAGAAACCA TGTTCCTCTA ATTCAGTACC CTTAATTCAT
49021 CGCCTCCAG ATTCTCCAT TCTCCTCCTC CTCCCCCTCC AGCCCTAGAC AATCTTTAAT
49081 CTACTTTCTT TCTATTTGGA ACATTTAGTA TACATAGAGG CATATAATAT ATTGCTTTGC
49141 CGTGACTGGC TTCTTTTCATT TAGCATAATG TTTTATGTA TGTTTTTCAT GGACCAATAA
49201 TATCTATTAT AAGGACATAC CACAACATAT TTTATTTATT CATTCATCAG CCGATGGACA
49261 TTGGTTTGTT TCTACTTTAT GGCTATTGGG AATAGTGCTG TTATAAACAT TTATGTACAA
49321 GTTTTTTTGT AGACTTATGT TTTGATTCTT TTTGGTTATA TATCTAGAAG TGGGTTTGCT
49381 GGGTCATATG GTAACACTGT TTAACCTTTT GAGGAATTGC CACATTCTTT TCCAAAGTAA
49441 GCATTTTATC CTCCTATCAG CAGTGTATGA GAGTTCGTAT TTCTCTCCAT CTTTGCCTGG
49501 GTTTTTGAAT CAGGGCCCCA GATAGAACAA AAATGTGGTT ATTCAGTTGT TCCACCATCA
49561 CTTGTTGAGA AGACTCTTTT TTCATTGAAG TGTTTTGGCA CCCTTATCAA AAATCAATCT
49621 ACCATAAATG TGAGAGTTTA TTTCTGGAGT CTCAATTTTA TCCATTATG CTATAATCTA
49681 TAATCCTATC TTTTTTTTTT TTTGACAGAG CCTCACTCTA TTGCCCAGGT TGGAGTGCAG
49741 TGGCCCAATC CCGGCCACTG GCTCCTCCTC CCAGGTTCAA GCAATTCTCC TGCCTCAGCC
49801 TCCCAAGCAG CTGGGATTAC AGGTACCTGC CACCATGCCT GGTTAATTTT TGTATTTTTTA
49861 GTAGAGACGG GGTTCACCA TGTTGGTCAG GCTGGTCTGG AACTCCTGAC CTCAGGTGAT
49921 CTGCCCACCT CAGCCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACCA CACCCAGACT
49981 ATAATCCTAT CTTTATGTCA GGACTACACT GTCTTGATTA CTATAGCTTT TTAGTAAATT
50041 GAATTCAGA AGTTTCTCAA CTTCAAATTT GATCTTTTTT TGGAAGACTA TATTAGCTAT
50101 TCTCAGTCTG CTGAATTTCC CTAGGAATTT TAGGATCTAT TATCAATGTC TATTCTATTT
50161 TTGTATATGT TTTAATATTT TCATAAGAAA CTTTTTTCAT TTAAACTTTT TTTTTTAAGA
50221 AAAATAGTGA AAATCAGAAC ACTGGGGGTC AGGCGCATTT AACAGGCAGA AGAAGAATAA
50281 AAACCTGTCA TATAAACAAA AAAGAAATGA CCAATCACAT TGTGGAAGCC ATGGAGTGGT
50341 TATAGGTGCC AAAGGCTGCA GAGAAATGGT GTCAGATATA CCTGAAAATT GTCCATTGTA
50401 TTTGGCCATT AAGAGACTTA GAAGACTTAA GCCATAGATT GCTCAGTGAG ACCCCGAGGG
50461 CAAATGGTCT GAAGGTGAAT AGATCATTTT ACCTTTAAGA GAGCAGGTAG GAAGCTATAA
50521 ATCCAAGATT AAAAAGTTGA CTGAACTGTT AAGGAAGAAA CTCTAATCTT GAGCCACCCT
50581 ATCCTGGCTC CACCTTCTGC TGCAAGCAAA CAGAAATGCT GAAATTCAAC ACTCACAAAG
50641 GCTGGTAAGC TGGAAATGAC AAAAATTACT CCTGGGAAAG TCAGATTTAG AATTAGGCCA
50701 TATTTGTTGG GGTTCAGATT TTCATGTACA CTTGGGAAAG GGTTTAGCTT ATAGGCACAT
50761 GCATGAAGGG AACTGGTATA GGGCTGTGTT CATAAGGTCA AGAGTTGAAG GCCAGGCATG
50821 GAGGCTCTTG CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCAGGAGGAT GGCTTGAGCC
50881 CAGGAATTCA AGACCAGCCT GGGAAACATA GGGAGATGCT GTCTTCACAA AACAAATAAA
50941 AAATAAAATT AGTCAGGTGT GGTGGCACAC ACTTGTGGTC CCAGCCACTC AGGAGGTTGG
51001 GAAGATCACT TAAGCCTGGG ACATTGAGGC TGTAAGTCAGC CATGATAGTG CTACTGCACA
51061 CCACTCTAGG TGACAGAATG AGACCCTGTC TCCAAAAAAA GAGCTGTATC CACATCCCAG
51121 GAAAGTGGTT GAAGATCTAC TTTTCTCTGT AAACCTAATA AAGAATAGAG TGACAAATGT
51181 GTGTTGTGGA AAGAAATGGG GTGAGAGCTA CGTAGATGCA AAACAATACA TCCCCACATA
51241 CCACTTGTTA ATCATCCTTT TCCACCCACT TATGGGATGA ATTGCATCTC CCCAAAAGAT
51301 ACTCTGTCTT AACCTCAGT AGCTGTGAAC CTGACCTTAT CTGGAATACG GTGAGTTTAC
51361 TGGTTAAGAA GAGATTATAG TGGAATAGGG TGAGTCCTCC AACCAATGAC TGGGGTCTC
51421 ACAGACACAG AGGGATGATG GCCAGGTAGA GATGGAGGCA GAGATTGGAG TTATGCTGCC
51481 ACAAACCAAA CACAGGAAGC TGCTAGAAGT GGAAACAGGC AAGAAAGAAT CCTTCCCCAG
51541 AGGCTACAGA GGGATCTTGG CCCTGATAAT ACCTTGATCT CAACTGGCCT ACGTAACTGT
51601 GAGAGAATAA ATTTCTTTTG TTCTAAGCCA CCCAGTTGAT AGTACTTTGT TACGGCAGCC
51661 CTAAGGAAct TGATATACAT TTCTTTTACT GTCATAGAAG TTTTGAATCT TTTAAGTAGG

```

Figure 1 (Page 16 of 73)

51721 TCTGTACCTC TCCTCCCAGT GTCAACACAT GGAATTCCTC TCCTTGTGCC TTGAAAAGTG
51781 AAAGGTGTTT GAACTGGTAA TGAAAGAAAT CTCAGCATGA GGCCAGATGC TGTACCTCAC
51841 ACCTGTAATC TCAGCACTTC GGGAGGATGA GGCGGGCAGA TCACTTGAGG TCAGGAGTTC
51901 TAGACTACTC TGGCCAACAT GGTGAAACCC CATCTCTACT AAAAACAAAA AATGTTATCC
51961 TAGCCGGGCA TGGTGCCTGT AGTCCCAGCT ACTCAGGAGG CTGAGGCAGG AGAATTGCTT
52021 GAACCCGGGA GGTGGAGGTT GCAGTGAACG GAGATCACGC CACTGCACTC TAGCCTTGGT
52081 GAGAGAGCAA GACTTGGTCT TAAAAAGAG AAAAGAAAAA TGAAATTTCA GCATTATAGA
52141 ATAAAAATGT TTCCCTTTCC CCCCAACTTT TAAAAAGCA GAAGTCTGCA TCATAAAATG
52201 GTCTTTGCCA ATGTTATTTT TATTATAACA AAGGAATCTT GCAAGGCTAC CAGATCTCAG
52261 CAATTGTCAC TATGTTCTGT AAAAATCACT TCCTAAAAATG TCTGAATTGA CTGCTTGTCT
52321 CATTATTTTG TTTCTCGTGT CATACTGCAA TGGATATCTG TCTTGTAGT ATAAATATTT
52381 GTGCATTTTG TTGTTGTTAA AACAGCTTTT TTGGCCTGTC TTCTTCCACC TATGAGGTAA
52441 TATAAACTC ATGTTTAAACA CTTATTTTGT TAGCAGGACA AGCTACAGAC AAAACCCCTC
52501 AGACACTGAG TTAAAGAAGG AAGGGCTTTA TTCAGCTGGG AGCTTTGGCA AGCTTCACAT
52561 CTCCAAAAAC CGAGCTCCCT GAGTGAGCAA TTCTGTCCC TTCTAAGGGC TTGCAACTCT
52621 AAGGGGTCT GTGTGAGAGG GTCATGATCG ACTGAGCAAG TGGGGGTATG TGACTGGCAG
52681 CTGCATGCAC CAGTAATCAG AACAGAACAG GGATTTTCAC AGTGTTTTTC CACACAATGT
52741 CTGGAATCTA TAGATAACAT AACCAGTTAG GTCGGGGGTC AATCTTTAAC CAGACCCAGG
52801 GTGCAACACC AGGCTGTCTG CCTGTGGATT TCATTTCTGC CTTTGTAGCT TTTACTTTTC
52861 TTTCTTTGGA GGCAGAAATT GGCATAAGA CAATATGAGG GGTGGTCGCC TCCTTATTC
52921 ACCCCCTTTG AGAATCTCAC TCATTAGTGG GAGTTCTCAC TTTTATCTC ACTACCTATG
52981 TCTTCTTGAA AGACAGATTG ATAATGATTC ATATAGTACA CTTGTGCTGA AGCATTTTGG
53041 TGAGCTAAGG TAGTGATGAA GCTTTTTATC ATTTGGAGAA GTACAGGTAG CAAACAAGGA
53101 AGCAGTAAGC AGGTTTCTAT TAATATTATA ACTCCTATTA TAAGAGTTTT AAATCTTCTT
53161 AGCACTCGGA ACCATTTTTT AAACATGGCC CCAGAAACAA ATCCATACCA CACCTACATG
53221 GGCACATGTG CCACTTTTGT CATATTTCTA ACTATGTCTT CAACTACTTG CCCTTAATCA
53281 TCTATGTGTA GACAGCAATT AGTAAGGTTA AATTTCCCTAC AGACCCCTCC TTCAGTTGCT
53341 AGCAAGTAGT CGAGAGCCAA TCCATTTTGA TAGATAGCAT TTTGCATCTG AGTTTCTTGC
53401 CAGGCCACAG TAGTCAGGGC TCTGCTGGTC TTATTAGTAA TTATTTCTAA GACAGCTTGT
53461 AACCAGTAGA TTCAGTTGAG CATGTAAATG GGGGTCCCAT ATCCCCACAA GCCGTCTTGT
53521 GCCCAAGTAG CAGGCCATA ATATTGTTATG ATTCTCTCAG GGGGCCATT ATTTATTTTTC
53581 CAATTTTCTA TAGCTATGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTCGG
53641 GAAGCATATA CAGGGAAGCC CAGGAGTTTG CCTGTCTTTA TGGGCAGTAG GAAGAAAGAT
53701 GGTTTAGTAG TGTCAATAAC ACAACTACCT GCCCACTGGT CAGGTAATTT GGCATAAGCT
53761 GTATGCCAC ATATCCAGTA TAATCCAGTG GGGGCTGTCC AGTCCCGGTG GGACTCTGGG
53821 TGGGTCCACA CAGTTTGCAA CTTTGGAAT TTACTAAATA GATTTTCTT AGTGTGGTTT
53881 GAACTCCACT AGGTGGCTGT TTTTATAGTA CTATTATACA GTTTTTGCCC AAGGCAGCTG
53941 AGTCTTCCCA CAGGAAGGGT GAAGTCCTTC CCCACTTTTG CTATACAGTA TTGTCTAATG
54001 ATTGAGGCTT TTAGGACCCA GAAGTTATCA GGGTGAGTCT TTTGAGCTGG GAATTTATCA
54061 GGAAGTGGGT CTGTAGGTAC TAATTCTCGT GCTTCCCATG GCCATTGATC TCCCATTACA
54121 GTTCTCCAC ATACATACAT AACATGAAGT GACATTGAGA GACTGGGCTA CATGCTCAGC
54181 TAATTGCAAA AACAAATTTT TTGTTTTTCC TGGAAATTTCT AGTACTGGCA CATTCACTTC
54241 ATCATAAGAA GGTTTGAAAT ACTGGCTCAG GGGAGCATTT ATAAACTTCT CCTCAAACCA
54301 CCATATTTAC TCAAGGATCC AGTCCAGCCC CAACTATTTT TAAGGTTACA CGATCCCTTT
54361 TTTTCCAGTG AGAATCAAGG GGGTTGGTTA TTACTAGTTC TAAGGGGTTA CACTGACCAC
54421 TGGTACAGGA AGGGCCACTT TTCCCTTTCT GAAGGTGGAC AGGATTCTTT TTATTTTTTA
54481 ACCAAGTTGC CTAAATGACA CAAGACAGT ATCTACATTT ATTTCCACGC AGCTTTAATT
54541 CATGACAAGC GTACTTATTT TCTGCCATAT AGCCTCTTTC CTAATGAACA GAACCACATC
54601 CTATTTCTAA CTTATTACTA TTAATGACAG CACAGGCATC AAATTTCAAG GTGACTTGT
54661 TGGGCATTCC TTTTCTTCT GTTTTGGCTA ACACTTTACT CGTATCGTTT ATGAACCCCC
54721 ACCAGTCCTC AGTCCTCAAT CTTATTTCAA AAAGTGTGGT CGTGGGAGGC TCAGATGGGT
54781 CATAACACAC ATCAGGTGGG TCATTTCTTG GGCTACCTAC CTTGTATAGA ATAGCATTAT
54841 ACAAACAAGT TATTTTTAGA GTCTTTGTAC ACTTATAATA ACCATAAAAT AATAAGACTG
54901 TAGCAACTTT TTGTCTTACC TCAGTGAATT GATGTATACA CTGGGAACAG CCCTCAGTCT

Figure 1 (Page 17 of 73)

54961 GAGGAAGGTT AGTTGAAGTC TTTACTGTGC AAGTCCAAAT TTTAAGGAAA ATGAGTCCCT
55021 TGATGAGTTT TCTCATGTTT CGGCCATGCA TGGACCAGTC AGCTTCCGGG TGTGACTGGA
55081 GCAGGGCTTG TTGTCTTCTT CAGTCACTTT GCAGGCGTTG GCGAAGCTGC CACGTACAGC
55141 TCACAGTCTA CTGATGTTCA AGGATGGTCT TGGAAAGTTGG GCCCACTAGA ATTAAGTGA
55201 TCCAATACCT CTACTCAGTC ACTTTCAACT GGGCTTTCTG ATACCAGGAG CAAGGTGGCA
55261 GGTTTTAGGG TGTGCAAAT TTCAATGGTT ATGCAGGGAT TTTACATAG CAAACTTTTG
55321 TACTTGGTTA ATCTAGCATT TGTTAGCCAA TGATGTATTT ATTAAGTCA CCACAGCATG
55381 GAGGGCCTTT AAGTTTAGGT TTTGTCCAAG AGTTAGCTTA TCTGCCTCTT GTGCTAGCAG
55441 GGCTGTTGCT GCCAAGGCTC TTAAGCATGG AGGCCAACCC TTAGAACTC CATCTAGTTG
55501 TTTGGAGGCC CAGCCTCGGC CAGGGCCCCA CAGTCTGGGT CAAAACCTCA ACCGCCATTT
55561 TTTCTCTTTC TGACACATAG AGTGTAAGG GTTTTGTGAG GTCAGGTAGC CCCAGGGCTG
55621 GGGCCGACAT GAGTTTTTCT TTTAATCAT GAAAACTCA TTGCTGTTGG TTGTAATAGA
55681 TGTAGTTTAT CCAATCTACA TTTTATTAA CTGTCACCCA CCAAAATATT GACTCAAATC
55741 CTGCAGTTAT TTGATTTTGG GATTTAAATT GATCTGCTAT TCCCTGTGGG ACTCCAATTG
55801 CATCTAAATA GATGTGAGAG TTGAAAGACA CATAAGGGTC TTCTCTTGCT TTACGATGTC
55861 TTATTTTTCC TCCCTCTGGT TGATGAAATG CTAGGGTGAA AGGGATAGCC AATTGGACTA
55921 AAGTACAAGT GCCGCTCCAG TTATTTGGCA GAGTGCCAG TAAAGGTCCA CCACAATACC
55981 ACCACACATC CGCTTGGGGA TGAACAAAGG CTGACTGATT GAGAAGCTCC TGAATTTCT
56041 TAAGCTCACT GCATCCCTTC AGGTCTCCAA GGAATGCTAA GTTTCCTCCC TGTCATGAGA
56101 GACAAGAAGT GAACTTAGTT TTGGGAGATG GAAGCTGGAT GGCCCTCAGG GGTGACCTG
56161 CAGGGTGCTG GACTTTGGGA TATAGCAGAG AGAGCTTGGC ACGACTTATT ACTCCAGGCT
56221 GTAGAATCCT GGAAAACAGT TACCATGCAG CCCATGCCTG GTCAACAGGA GGACCACCTT
56281 AGTGGAAAGG GGATAATCTG GCCCTCTGGC CTGCCATGTG CACAAGCATA ACAATTGGTT
56341 TTGTTTAATG TGTGGACAGA ATATTTGATC CATTCCAACT GGGCATTTGC ATCTTGGTAT
56401 CCTGCTTAAT TATCAAAGTT TGTTTTAAGT CTTTAACTTC TATGACCCTC TAGTAAATG
56461 AATGTATGAT TTTAGGAAAT TACAAAAACC GGTGGGGCA GTCCATCCTT GCTCTTTAGT
56521 GGTCCACACA ACATTGACC AACTATGGCA TAAAAGCTCT ACATCGGGGG GCAAGACTCC
56581 TCGTTGACAC TGGGGTCTTT ATTGAAATCT CTCTGGAATA AATGGTCTCA GTTTACTAAG
56641 GCTCAGTCTG AGGAGGACAG AGGTACTTTT CTGAAGTACA GAGATGCTTT
56701 CGACTTGGCA AGTCCCCACA GGGTATAACA AGGCAAGCAT TAAATTCAAT AGTTTGAGGC
56761 AAAATTGACT TGGTTATGTT AATAACTAGA TGGTCAGAAA TAGAGTGAGG GAAGAAGAAA
56821 GAGTAATAGA ATAGATGAAG GAGTTAAATT TTTCTTAGCT TTAGTTTGGT AGGGTTTTCC
56881 CCTGGGACTA TGGCCCATGA CTCTGGAGGG GGTGGCACTT TCTTGACTCG GGTGTGATGA
56941 GTCCATCCCT TTTTCACCGT ATGAACAACA GTCTCGGTGG TTAGCAGCAC AAGGTAGGGT
57001 CCTTCCTAGG CTGGCTCAAG TTTTCCTTCT TTCCACCCTT TGATGAGAAC ATGATCTTCA
57061 GGCTGGTGCT GGTTTACAGA AAATTCTAGG GGTGGTACAT GTGCTAAAAG ACTTTTAGTT
57121 TTGAGGGAAA GGAAAGTGGA AGATAAACCA AGTATATAAC TTTTAAGAAG TTGACCTTTT
57181 GTTTTAAATG TGGGGACATC AGCAGTGGAC TTTATAGTCC TTGGTGCCTT CTTACTGAGA
57241 AATTTCCCTT AGCACCTATT TTTATTAGTT TTTAGACCAA AGAAAGTCAA ATGCCATTTT
57301 ATATTTGACA ACGCTTCTTG TATGTTTATA CCAGATAAGC TAGATTTTCA CTTTATATTG
57361 GTGTGTTATT AATGTTAAAC TTAGTTTTTA TAAAACTCTG TAGACATATT TATTTGATTT
57421 TTAATGTCTG ACCATAAGGT AAGATTTTTA TAGACTTTTC TTTAACCTTT TATAATTTTT
57481 GTTAAAGAAC AGGTTAGTGC TTTAAGAAAA ACCCGTTGTG TTTTATTTT AATGTTTCAGT
57541 TCACAGAAAA ACTGTATGAT ACCCCTTAAC TTTAGCCAAT ATGTTTAGAC ACAGAATTTT
57601 CTTTACAATT AAGGTTTCAA AACTTGCTTA AACCTTCAA ACAATTTTTG TAACCTTTTA
57661 ATGTAGGTAA AAATCCACAT TCTTATGCAT CCTCATAATC CTTTACCBA AGGTATATTT
57721 TACTTTCCTT ACATACCTTG CACATAAACT GTTTATTCAA TAGTTTACA TTAGAAGGA
57781 GGCTTAATTA CTTTAAATTA ATACAACATT TCTTACATAA ATTTATTTTT CTAACACACA
57841 TTTTTCAT GACTTTCACA GACAATTCTT CGACATGCCT CAACTTTCTG ACTTATTGCA
57901 AACATCCCTT TCTTTAAACA ACTAGTTAAT TTATCTCAGG ACAAGGATTT TCCATACAAC
57961 ATTCTTTTTT ATATAAATC TGCCCTCCTT TTATTTCTT TTTTTTTTT CCGAGGATGA
58021 TAACCATTCT TTTCCAAAGC GAACCTCTT TATGTCTGTG GACTAGACTG TCTAAGGCCA
58081 CAAGATTAGA AGTTACTATA ATACATGTTA CACTGTTAAC TTTTAGCAAA CTTTACTTTT
58141 GTTGAAGAAC TTGTAAGTTT GGGATTTCOA TTATCCTTTG CTATTAATAA GACCTTATTT

Figure 1 (Page 18 of 73)

```

58201 AGTCCAAATT AACTTAGAAT TGGTATAGAT GGCTTTTTTTT TTTTTTTAAT TACCTGGGAG
58261 GAACCATCTA TCCTCCTGTC CTGAAGGGAG TTCCCTCCTAG GTCTGGTCAG AGCTTTGTAT
58321 GGTAATTAAG ATTTAGATCC CCTGTTAGGA AACCTGCCGG GTTAAGAGAA TTTTCAGTGG
58381 TTAATGTTAA ATCATCTTCT TTTTTCCTTTT TTCCCTTAGGA TACTTCTGAA CCGGTGAGGT
58441 GTGCTCACAA TGAGGTTTCC TGTAAGGTT ATTTTTTTTAC TTTCTTCTGT TAGCAAAGCA
58501 GTTGCCGCTA CAGATTGAAT GCATTTGGGC CATCCGCGGG TTACTGGGTT AAGGATTTTTT
58561 GATAGGAAGG CCTTAATGCT TTTGGAATAT GCCCTGACAA CAAAGTGCCA GTTCCCTCCC
58621 GGTGTTTCCAG CACTGCGTTG ATCCTCCACG AGGGCCTGCC ACGTGTCTGT CTGGTGAGGC
58681 GTTCCACCGG GGCAATTGCC TACCTGGGAG CGCTCTCCAG ATCTGTGTCT CTCAAACCTGG
58741 CTGGAGTTCC CCGTAGGGAT GCTCCACAGG GCAGGCCATA GTCCGCTAAG GGGCTGCCTT
58801 GACCGTCCGT TAATCACCTC TGTCTCCAAA AACCAGCTCC CTGAGTGAGC AATTCCTGTC
58861 CCTTTTAAGG GCTTACAAC TAAAGGGGGT CTGCATGAGA GGGTCGTGAT TGATTGTAGCA
58921 AGCAGCGGGT ACGTGACTGG GGCTGCATGC ATCAGTAATC AGAACAGAAC AGAACAGCAC
58981 AGGGATTTTC ACAATGCTTT TCCATACAAT GTCTGGAATC TATAGATAAC ATAACCTGTT
59041 AGGTCAAAGG TCGATCTTTA ACCAGACCCA GGGTGCGGTG CCGGGCTGTT TGCCTGTGGA
59101 TTTTATTTCT CCCTTTTAAT TTTTACTTTT TCTTTCTTTG GAGGCAGAAA TTGGGCATAA
59161 GACAATATGA GGGGTGGTCT CCTCCCTTAA TTTAAACAAA ATTTTCAAAG TCCTACCCCA
59221 AGTAAATTGG CAAATATTAA TAAAGTTATG GCATAGAAAA TAAAAATGAT TGTAAAAGGC
59281 GTAAAGATAT TTCTGTGGGG AAAACATTTG TTCATTAGTT ATCAGTTAAA ATTCTGTGAA
59341 AAATAACCAC TAGAGACCCT AAAGTACCCA GGGGCTAATA ATAAGAAGGG AGGAACACCC
59401 TCTCACTCCC CACCGTTACC TGCCCAGAAG GGAAGAGGAA GAGGGTGACT CCAGGAGAGC
59461 TGTGGTCTCC CCTCCCCATA TGTCCACATA TACCTGACCT CCCCTCCCCA AAATATATAC
59521 CCAATATCTC TCCCATATAT ACATATTTAT CTGACCTCTC CACATATGTA TACCTAAACT
59581 TTCTCTATAT ATCCACATAT ACCTAACCTT CTCACACACA TATAGCTGAC CTCCAGTGGA
59641 GGAAAATGGG GAAGAGAGAA GAAGTTATCA AAGGATAAAT CTAGGTCATA CTCAGAAATG
59701 TGAAAAACAA AAACCACACA CAGAAAAAAA AAACACACAC AAAAAAGAAA TTGATAAATT
59761 TGTTTGTGTC AAAATTAAGA ATTCGGGTTT AATGAAGGAT CCCATGGATA AAGTTAAGAC
59821 ACTGCTGTAA GGATGTTAGA GAATTAATAT TCTGAATCAG ACGAAAGGAT GAGTAATTAG
59881 AATGCACAAG GCCAAGAAGA ACAAACAGA AACTCCACAT AAAAAATGTA TGAGGCGGGG
59941 CGCGGTGGCT CATGCCAGTA ATCCCAGCGC TTTGGGAGGC CAGGGCGGGC CGATCAGGAG
60001 TTTGAGACCA GGCTGGCCAA CATTGTGAAA CCCCATCTCT ACAAAAAATA CAAAAAATTA
60061 GCGGGCGGTG GTGGTGGGTG CCTATAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT
60121 CACTTAAACT CAGGAGGCAG AGGTTGCAGT GAGCTGAGAT CACACCATG CACTCCAGCC
60181 TGGGTGACAG TGTGAGACTC TGTCTCAAAA AAAAAAAAAA TTATATATAT ATATATATAT
60241 ATATATATAT ATATATATAT ATATGAAATA AATGAACAAG AAATTTAGAT ACAGGAAAAT
60301 CCAAAGCACT TGGTAATGAA AGAAAGGTAA AGTGATGTGT CCTTTTGCAT TTAAAAGAGA
60361 GCATTAACAA ATTAGAGAGC TGAATAATGC TCAGTATTGG TGTGGATATG GAGACTCAGG
60421 AATCCTCATA CACTGCTGAT GGGAGTGCC ACTCCCTGGG AATATTTTCC AAATATCATC
60481 TCAAACATAT CCCATAAAGG TGACAGGAAA GTGTGGGCTG ACTGATATCC TTCACTGAGA
60541 GAGGTGGAGG TAAAATGAAG TCACTGCACA ATATAGAGTT GGAAGCAATG GATTAGATGT
60601 CCACATAGTT ACGTGGAAGA ATCCGTAAGA TACACACACA CACACACACA CACACACACC
60661 TTTGTGTATA TTGTTTCTTG CAGGTAGGCA TGGAGGTTTA GAGGCTTTCT ACATCACACC
60721 TACTGCACAC AGTAAATGGC CAGGCTGAGC ACTGACTTCC ATGAAGGGAG ATTGAAGGTA
60781 AGAGATTGAA GATTGTTCCC TGGTCTGGGA CCCTGCAACT GAATATGCAG AAAAAAGTAC
60841 ACCCCGCCAC CCCGCTTCCC ATCTTTTCTA CCTGATTAGA ATAGCTTTTT CAGAAAACGT
60901 TGGCCAGGGG TTGTGGCTCA CACCTGTAAT CCCAGCACTT TGGGAGGCTG AGGCGGGCAG
60961 ATCATCTGAG GTCAGAAGTT CCAGACCAGC CTGGCCAACA TGGCGAAACC CCATCTCTAC
61021 TAAAAATATA AAAAAATTAG AGGGCATGGT GGCACACACC TGTCATCCCA GCTACTCGGG
61081 AGCCTGAGGC AGGAGACTCA CTTGAAGCAC AGTGATGGAG GTTGAAGTTA GCTGAGATCT
61141 TGCCACTGCA CTCCAGCCTG GGCAACAGAG TGACACTTTG TCTCAACAAC AACAACAAAA
61201 CCCACCAAAA CTTTAAATCT ACCTATGGCC AAATGCCTGC TAAAATGAGC ACCCAAGAAG
61261 CAGTGTTTCA GAAAGTCAGA TGAATACCTT AAAATTAGAT GCAATGTTGG CTGGTCACAG
61321 TGGCTCAGGC CCTGTAATCC CAATCCTTCT TGGGAGGCCG AGGCGACAGA TCGCTTAAGC
61381 TCAGGAGATC GAGACCAGTC TGGACAACAT GGTGAGACCG TGTCTCTACA AAAACGTACA

```

Figure 1 (Page 19 of 73)

```

61441 AAAATGAGCT GGGAGTGGTG GCGCGCACCT GTAGTCCCAG CTA CTCTCAGGA AGCTGAGGTG
61501 GGAGGATCTC TTGAACCCAG AAGGCGGAGA CTGCAGTGAG CAGAGATCAT GCCACTACAC
61561 CCCAGCCTGG ATGATAGAGC CAGACCCCCA TCTCCAGAAA AAAAAAATAA AGAGAGAGAG
61621 AGATGCAATA TTTAGGGTTC AACAAGACTG AATTTCTGAC TCCTTTCCCT ACCTCTCCAG
61681 CATGTTAGAT TCTGGGTCCT TCATCCTAAC CCCCTGTTCA TGCCATAGCC ACCCTGTGGT
61741 ACCAACTTTG GAAGCCTGGA TCTTCATCCC CTCATGATAA TGAGTGTCCC ATCAGGTCTC
61801 CATGCTCAGC TTGGCAAGAG TATCTGTCTT CTCCTCATGG GACGGTCACA TTCACCCAGC
61861 ACTGACAGGT TCCATTCCCA CTAGGGTGGC ACCCTATATG GTCTGAGTCC AGGCCTTCCT
61921 GGTCCCTCAG TAATCTCAGC ATGGTAGCAC AATCGAAAAG GGCTAGGCAC GGCAGACCA
61981 TTTCCACCA AGAGGTCTGA TGGCTCATCA CATAGACTGA AGGAGATTCT GAAGAGCAGA
62041 GGTGGAATGA AGAATGAATC GTGGGCTCTG CTCTTCCTAG GCCTGTCTTC CTCTCTCCCG
62101 AGATGTTAGC TAACTCATGA GAGCCAGAAA CCAACTGCAG GCTGGCCTCA GGCACCTAGG
62161 TAGTGCTTCA GCCTCAGCAG TCCACATTCT AGGAACCCCTC ATAATATGGG TTGAAGTATG
62221 CATTCCCAACA AAAATAAAGT TGTTGAAGTC CTAACCACCA GTACTGAAAT GGGAAAAGTT
62281 CCCTTGTCCT GCTCGCATGG CATGTGATAG GAGTGTGGCT AATTTCTTCA TGCCCTGGCT
62341 GCTCAAACCT CTAGGGGAAC ATTAAGACGG GCAGGTTGTG GGTCTCCAAC CCCATGACCC
62401 CACCACAGTG TCTAGGGTTG AATGTTTACA GCTCCTGAAG CCACAGTGGG TGTGTGTTAC
62461 AGGGTGCTCT TTTAGTTTTG CCATTTATAG GCAGCTGGTG TTAACCAACT CAATTAGACC
62521 GTCTACCTTG TCCCAAGGAC AGAAGAAGGC TTTCTGTATC CCAGGTTCTT GCCTTGGTGT
62581 ACCGGAATAA ATCAGACCAC ACCTGGGCTT AGAGAAAGAG TGCAAGGTTT TATTAAGTGG
62641 AGGTAGCTCT CAGCAGTTGG GCAAAGCCAA AAGTGGATGG AGTGGGAAAG TTTTCCCTTG
62701 GAGTCAGCCA CTCAGTGGCC CAGGCTCTCC TCCAACCACC CCAGTCAAAT TCCGCCTCAT
62761 TTTGCCAGGC AAACGTTTGT TGTGTGCTCT TCTGCCAGTG TGCTCCCCTG GACGTCCAGC
62821 TATTCTGTGTC TTGTGGCAGG CCAGGGGAGG TCTTGGGAAA TGCAACATTT GGGCAGGAAA
62881 AAAAAAATGC CTGTCTCTAC CGTGGTCCCT GGGCACAGGC CTGGGGGTGG AGCCCTAGCC
62941 GGGGACCACG CCCTTCCCTT CCCCATTCC ATATCATTTA AAGGGACCAT GCCCTTCCCT
63001 TCCCAGCACT TTCCCCCTCC TGTATCAGGA CCTGTGAATG TGGCCTTAT TGGAAATAGG
63061 GTCTTTGCAC TTCATCAGTT AAGATAAGAG TGGGCTCTAA CCCAACATAA AGGGTGTCTT
63121 TATAAAAAGG AGAAATGTCA TACACAGAGA CTGACACCTA TAGAGAGAAA ATGTGGTGAG
63181 TAGACACAGG GAGAATCACC ATTCAGATCA AGCAATGAGT CTGGGGATAC CAGTAAGTGG
63241 GAGAGAAACC TGGAACAGAT TATCCCTCAT TGCCTTCAGA AGGAATCAAA CTGATGATA
63301 CTTTGATTTT AGACTTCCAG CTTCCAGGAC TGTGTGACGA TAAATATCTG TTGTTAAGCC
63361 AACGAGTTTG AGGTACTTTG TTA CTG CAGC CCCAGAAAAC TAATACAGTA GGTACTATGG
63421 ACTGAATTGA CTCCCCGTCG CAAAATTCAT ATGTTGAAAC CCTAACCCCC AGTGTGATGG
63481 TACTTGAGC TGGGGCGTTT GGGAAGTCAT TATATTTAGA CAACTCATC AGGATGTGTC
63541 TCTCATGATG AAATTCATGC CCTTATTAAA AGAGACAACA GGCCAGGTGC AGTGGCTCAT
63601 GCCTGTAATC CCAGCACTTT GGGAGGCTGA GGTGGATGGA TCACCTGAGG TTGGGAGTTT
63661 GAGACCAGCC TGGCCAACAT GGTAAAACCC CATGTCTACT AAAAATACAA AAATTGGCCA
63721 GGTGTGGTGG TGCACGCTTG TACTCCCAGC TACCTGGGAG GCTGAGGCAG GAGAATCCCT
63781 TGAAACCAGG AGGTGGAAGT TGCAGTGAGA TCACACCACT GTACTCTAGC CTGGGTGATA
63841 GAGACTCCAT CTCAAAAAA AAAAAAATAA AGACAATAGA GCCAGGTGCT GCAGCTGATG
63901 CCTGTAATTC CAACACTATG AGAGGCTGAA GCAGGAGGCT CGCTTTAGCC CAGGAGTTCA
63961 AGACCAGCTT GGACAAAATA GTGAGACCCC CAACTTCTAA AAATTTAAAA AATGAAC TGG
64021 GTGTGGTGGT ACACATCTGA GGCTCCAGCT ACTCTGGAGG CTGAGGTGGG AGGATTGCTT
64081 GAGCCCAGGA GGAGGCTGCA GTGAGCCATT GCTGTCCAGC CTGGGCTACA CGAGAACCTG
64141 TCTCGGAAA AGGAGAAAAC AGTGAGACCT CTTTTTCTCT CTCCTTCTC TCCACTGCCT
64201 AAGCCCTACA AGCACAAAAA GGACACCACA TGAGCACATA GTGAGAATGC TGCTGCCACC
64261 AACAAGTCAG GAAGAGAGCG TTCACCTAGA AACTGAATTG GCCAGACCT GGATCTTGGA
64321 CTTCTGAGCT TCCAGAACTG TGAGAAAGTT ATTTTTTTTT TAGCGACTAA GTCTATAGTA
64381 TTTTATTACA GCAGCTCAAG GTA ACTAACA TAGTAGAAGG GATGAATTAT GGAGATCACA
64441 AGTCCACGCC TCCAGAAAAA GACTTCCCTA AAAATTAGTC TGAGCAAAAT TCGAATGATG
64501 AATTATTTTT AAGAACTTTT AAGGGATCTG ACAAGTTTGC AAGAGCTAGA GAATGCTTTA
64561 CAACGTGATA ATAGAATGCT CTGTGATGAC AGAAATCTTT CCACACTGTT CAAAAC TAGC
64621 TACTGGCCAC TTGTGACTAT TGTGCACTTG AAATGTGACT GGTGTCTGAG GAGCAGAATG

```

Figure 1 (Page 20 of 73)

```

64681 TTTAATTTTA CTTAATTTTA ATTCATTACA ATAGCTACAT GTAGCTAGGG GCTACTGGAT
64741 TGAACAGCAC AGCTCGAGTC TTTTAGAGGG AGACAGGACT CACCAAGATG GATGCTGGTG
64801 GCCAAGCAGC AATGGCAGGT AGTACACACA CAAGAGGCAG ATGATACAAC ACATCCTTCC
64861 CAAACCTGGA GATAAGCTCA CCCACAATC CCGCCGCTGA AATAGAGTTG ATGTTACCAA
64921 TGTGCATTTT TATGTCCCTT TCCATACAGA AAGATCATTC AGCAAGTACT ATGGTACTTA
64981 AAAACAACA TTCAATTTCAT TATTATGACA AAATTAAAT T AATAGCTCTT CCTTAACTT
65041 TTAAATTCAT TTTACAATGC TTACTATTGG CATTTATTAA TCTACCAATT TTTTCCATA
65101 GAACCCATAG AACAAATAAT CTACCAAAT TTTAACATTC ATTTTTGGCA AGGCTTTTGC
65161 AATTTGACGA ACTTTAAGAA GAAAACCTAT AAATTGCAAT TTTTAAATCT GACATACTGG
65221 ACTTTTAAAG TATCCAATTG ACTAATGAAC AAAACTGCTC CAAATTTTTT AATTCTTAAA
65281 AATCTTAAAG CAATACTTAA TATGGCAAAT CTTAACTTCT TAAACTTTGT AAGAATGCTA
65341 ATCAACTTAG ATTGGTATAA AGTTGAGTTA AAAATCACAG GATACATCAT CTCAGCTATA
65401 AGTTTTCTAG AGTTGAGTTT TTACAATCAC TTGAAATGCT TAGAATAGGA AATACGTATA
65461 AATTATTTTAA CATAAAATAT TGTTACAAAA CCTCTGGAGT GTCAGTTTCT CTGGCCAGAC
65521 TTTATGCTGC AGCACCTTTG CCTGAGTTCT TGTCTGTCAT CCAGGAAGAA TTAGGTACAG
65581 AGGCAAGAGT CAAGAAGATT AGTTTTCCAA TAGTTTCTAGT CACCTAGTTA ACTCCTGTTC
65641 ACAATCTTCA AAGTTATCAG AAACCTGCAA TTGAGGGTTA TAATCCATTC TTTGCAGAGT
65701 TTCAAAACAA GACAACATTT GTCTATGAAT GTTAAAATGT CCTAGGGTAG TCACAGTCAA
65761 AAACACAATT GACAAAGAAA TTTAGTCACC TCTGTGATTT ACAATAGCCT AACACAATAA
65821 CTCCTAATTAT AACTGATGAC ACAAACCTCAG ATATCAGAAC TCTAGAAATC CCCTATAATT
65881 TTGGAACACA CATTACAGT TTTCACTGAA ATATGACCTG AAGATCAAAT ATCACCTTAT
65941 TTCAACAATC CTATATAACT AAACCTGTCA AATGATCCTG TTTACCTCTC CTTTGGATAC
66001 TCCAGGGGCC CTCTGTAGCA TCCAAAAGTT AGGGGTTAGC AAAGACAATT TTGAAGCTGT
66061 AAAGGCTCAA AACACTTAAT GAACCTCTAG TCATATCTGT TCTCTACTCA CTAAATGCTA
66121 GTAGCACCTC TCAGTTGTGG CTAAGCTGGG AGGATCTCTT GAGCCTAGAA GTTTGGGGAC
66181 GCAGTGAGCT ATGATTATGC CACTGCACTC CAGCCTGGGC AACAATGCAA AATCCTGTCT
66241 CAAAAACAAA AACAAAAAAC AAATTGCCTA TGCTGTGGTT ATCTCACAAT TAATAAAAAG
66301 GAAAAAATAA GTATGCAGTC TTTGTAGGTC CTTGGGGTTT GTTGGAACTC AGAAAACAAT
66361 ACCCCAAAAT AAAGACCGCA GAAGCCAAAG TTTTCTCTG ATCTTCTCCT GCCCTCCTGT
66421 CTCTGAGTCC CAATCTCCCC GGAGTCTAGC CATAGAAATG AGAATTCCTC TTCTCAAGT
66481 TAGGTCATAG AAATCAAAAC ACCTTTTCCT CAGAGCCCAG CCATAAAACC TAAAAATATT
66541 ACTCTAACTT TCCCTCTGTT TTTCTGTGTA AAAACTGGCC ATAAAGAAAT TATCTGAACT
66601 ACCTTATTTG ATCATAGATC ACCAGACCGC ATTCCAGAGA GGATCCAGAA GGAAGGAATG
66661 CTGCACAGAG AGGCGAAGAA GAATCTAGAC AGACAGGCCT TGCTGGGTTT CCCTACTCTG
66721 TTTATTAGCA ATCCTATTTT TACACGGCGG CCCATACTTT GTTGAATCTA AAAAATAAAA
66781 ATGGACAATT TCCCCTGTAC ATGTTAATAC ACATTAATAA ATTGGATATA AATTGGATAA
66841 TTTATTAAAT TACACATTAA TAAATTGGAT GCAGCCGGGT GCAATGGCTC ACGCCTGTAA
66901 TCCCAGCACT TTGGGAGCTG AGGCGGGCAG ACCACGAGGT CAAGACCACC CTAGCCGAAA
66961 TGGTGAAACC CCGTCTCTAT TAAAAATACA AAAGTTAGCT GGGCGTGGTG GCACATGCCT
67021 GTAGTCCCAG CTACTGGGGA GGCTGAGGCA GGAGAATTGC TTGAACTCGG GAGGCGGAGG
67081 TTGCAGTGAG CCGAGATTGC GCCACTGCAC TCCAGCCTGG TGACAGAGTG AGACTCCGTC
67141 TAAAAATAAT AATAATAATA ATAATAATAA TAATAATAAT AATAAATTGG ATGCATTTTA
67201 TCCTATTAAT CTTCCTCTTG TCGGTGGTTT TCAGCGACTC TTCAGAGGCC AAAGAGTAAG
67261 TTTTCCCTTA GCCCCTACAG GTTCTTATGT TTAATTTGTT ACTCTCATTT AAGACATAAT
67321 TAAAGTGGCT TCTCCATGAA GATTATTTCT GCATCCATTA TTTGGTAAGA TTGGCCGTTT
67381 TCTCCTTTGA TCTCTACTTC AACTTGACCC ACATAAAACA TCACTGCCTG TTTTCTGTTT
67441 GTTGTGTTTT GGAGACGGAG TCTTGCTCTG TTGCCCAGGC TGGAGTGCAG TGGTGTGATC
67501 TCCGCTCACT GCAAGCTCCG CCTCCCAGAT TCACGCCATT CTCTGCCTC AGCCTCCTGA
67561 GCAGCTGGGA CTACAGGCAC CCACCACCAA GCCCGGCTAA TTTTGTATT TTTAGTAGAT
67621 ACGGGGTTTC ACTTTGTTAA CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCGGCCCCG
67681 CTCAGCCTCC CAAAGTGCTG GGATTACAGG AGTGAGCCAC TGCGCCCGGC CCCGTTTTTT
67741 TTTTGGTTTT TTGCATGTCT TCTCCCTTTT ACTGTAAACT ATTTCCACTA CCAGCGTAGT
67801 TATCATTTCT ACTGCTTAAT AATTGTTTTT GGAAGTGAA TGCATCAACC CACATGAATT
67861 TCTTGTCTAT TTGACAATTT ATTCTCTTTA GGAATAGTAT TAACTCCTAA GGTCTGGGA

```

Figure 1 (Page 21 of 73)

```

67921 GCCAGTCTCT GTACTTGGCT GCTCCAGGGT CCTACTTCAG TTTCCCAGCT TCTCAGTACT
67981 GTCAGTGTCA ATTGTGGGTA ATAATTATTT TTGTCCACCA AAAGACTCTG TATGTGAATG
68041 AGTTTTGAAA TCTGCTGAGT AATACAGTGT CAACCCAGTT AATGATTTGC CGGGCGGCTT
68101 GATCAGGGGC TGTCCAATA CCGGCATTTT GATTTGGAGC GTCATCTAGT GTCTGAAAGC
68161 ACAAACAACA TCCTACATTG TAAATGCCTT TGGCTACAGA GATTGAAACC AAAGCAAACC
68221 TATGTTTTGA ATTGTTATTC TTCAGCAGTT CTGCTAGCTT TGAAAAATCT AAAAGTTAAA
68281 AAAAAGCTTT ATATTTTCATT TTCTGCCTAA ACTCTTTAAA ATTGCTAGTT GACAATTAGA
68341 TATTTTCAAT TTAATGAAAT TTTTTTTTGG TTCACAGATT AATACACAAT GGGGGAGGGT
68401 TCTTATTCTG TTGGACTTTT ACATAACCTC CACTTTTAGTG CAGTCTGCTT TATGGGGTCT
68461 TGTTTGAGGT GTGTGTGTGT TTAAGGGAAT GTGGTTTACA ATCAAAATAT TGGGTTGCTC
68521 TTAGGCACAT TGTAAGTCA CACACCTGTA TTCTTATTGA TACATAATGA TTAATAACAT
68581 TATTATTACA GCCTGATCAC CATCATTATT GATATATCTA AATAATGAAT TTTATAATTT
68641 TGCTTCCTGT CAGGCAAGAG CCAATTTTCAG TGCTACCATG TTTGTATAGC AGTATTTATG
68701 TCTGTCTATCC TCAGTCAATTT TACTTCACTT GTTCTTAGCC AAACGGCCGA GAAGCGATGG
68761 TCATTTTACT TCAAAAATGA AAAGAATTAA TATTTTTACG TTTCCCTTAA AGACCCATAG
68821 TTTAACCTCC ACTCCTGGGT AAAATGGTCT AGTCCCTCCT TTTTCATATCA TCTCTGATAT
68881 CTTTTGCACA GCCACTATTA CCTACCGTTT TCTAGATCCC TATTTCTTCAA ACACCACCAT
68941 GAAGGTAGAG CCTGTCTGAA TTATTTTCTT GTCCCTTGAA CTCAGTACAT TGTTAGGCTT
69001 CTTGAAGATG TTGATCAGTT GTTTGTGGAG TGAATGAATC AGCTAGCATG ATTTTCTTAG
69061 ACCACTGAGA CAAGTGTCTA AGACACTTGT TCCTTCCCAT GTTCTTGCTT GCCTGTGCAA
69121 TCCATGCAGT CTCATGGCTT CCCAGTGCCT CAGAATTATC CCCTGTCAAA CAGGCATTAT
69181 AATTTCTGTC CACTGAAAAG GACAAAAAAC TAAGTGTATA GCTAGAAGTT AAAAATTACC
69241 GGCCAGGTAC TGTGGCTCAC TCCTGTTATT CCAACATTTT GGGAGGCTGA GGCGGGCAGA
69301 TCACCTGAGG TCAGGAATTC GATACCAGGC TGGCTAACAT GGCGACCCCG TCTCTATCAA
69361 AAATGTAAAA GTTAGCCAGG TGTGGTGGCT CGCACCTGTG GCCCCAGCTA CTCAGGAGGC
69421 TGAGGCAGGA GGATCGTTTG AGCCCTGGAG GTTGAGGCTG CAGAAAAATA GGAATATACT
69481 CTCTTTCAAG AGTTCGTGGT TTTGACTGCC ACCTAGCGTA CATCAGAAAA ACCGCATGAC
69541 ATAGGAAATG CCTGTGACAG AGGGGTAAGG TGAGAGAGGT TGATGAAGAA TGTATTGAAG
69601 GAGTGAAAAC GCTTCCATCC CTCTACTTAC TAAATATATT AGTTAAGTAG TTGGGGCATA
69661 TTTTAATTCA TGCAATTTGT AGATAGAAA ACAAAGTTT TATTTCTGTT TATTCTTGTG
69721 ATACTTTAAT ATGTGTGTGT TTAGGATGCA TGATTTATAA TCAGTCTGCA GCATTCTTGTG
69781 GAGAAGTCTG AATTCTCATT CTCCATTTCC TTATTGGCAA CGTGAGAATG ATTACAATGG
69841 TGGTTGTCTC ATAGAATGCA GGGAGTCAGA ATGAAAATAG TCCATATAAT GCCTGGTGCA
69901 GAGGAAGGGT TCAGTTAACT GTCTGTATTA ATATTACTGA TAACAGTCAT GACAAACAAA
69961 AGCTTAACAA CAACACCACC AACAACAGTT GCAGAATTGA GCCACCAATT TGCACACAAG
70021 ATGTAGGTA GGATGTTTTA GAAAAGTTAT TATTTAATAT ATGTATATAT TTTTGTACTT
70081 AAAATATGTC AGAGGTTGTT CTAAGAACTA TTTAAATGTT AACTCCTTAA TCCTCATAAT
70141 GACCCATGAA ACAGGTAGGC TTATTATTGT CTCTTTACAT GTGAGAACAC TGAGACACGA
70201 AAAGGTTTAT TAACTCACCC AAAGTCACAC AGCTGGTAAA ACGGCAAAAT TGAATTTGAA
70261 CTCAGACATT CCAGGTTCCA AGACAGTCTA ATTATTCTTT TGACTAATAT ACTAAGCTGC
70321 CTCTGTATTT TTCCTTGATT ACTTTGTAAA AGTATGAGGA AAATATAAGT GCTTCAAGTA
70381 ACCATGAAAA ATATAAACAA TCTATGTATC AACTGAAGCA TAATTACAAA TCCTTTTGATA
70441 AGCAAACATA ATAAAAATTT GATATCAATC AAAACTTTCA TGTAATGTAA GCAGGTTGAG
70501 ATGAATTCTA TAGTAAAAAA GTGCAGAGTG CTGGAATACC ATGCTCCTAA TATATTGGCT
70561 AGGCACACCT GCCTGCTATC AAAGGTATGC ACACACCTTG GATACAGAAA GTTGGGACTG
70621 GGTAGTTATG TGAGTGTCTA CAGAATTCTT TCCCCTTGG GAAAGAATTG TCCATCATAA
70681 GCTTGGATGA TGGACAAGGA GTGAGCTCCC AGAACAGTGA TGTGGGGATA CATCCTCACA
70741 TCACAGTGAG AATGAGTGTT CTAGACTGTT TACACACCTA CCACTCCTAA ATGCACACAT
70801 ATAATTGCTT GCACACACAC ACATACACAC TCATCTCTTC TCTGGTGGTC CAGCTCTATC
70861 TCTTATCATT AGGCTTCTTG GGGCTAGTAC CTAGGGCCTG TATCCTTTCA GAGGCAGCTA
70921 AGGGAAGCAC ACATAATTAG AAAGAATGAA CCAGCTTGTT GGATTTGGTC TCTTCGCATC
70981 CAGCCCTCCA AGTTAAGGAG AGTACCATCT TTCTTAGGGT CACCAAAGGA AAAAAAAAAA
71041 AAAGAAAGAA ACAGAAGGAT ATCATACAGC AAGGATCTAA TGCAAATATG CCTCAAATGA
71101 GAGGCTACTG TGTGCTGATC CCAATCCAG GAAGTGTATG CACATTATCT AATTTAATCC

```

Figure 1 (Page 22 of 73)

71161	TCACGTGATT	TCTGGGAGTA	TTATTCCCAT	TTTACAGAGA	AGGAACTTGG	CAGGGTAACC
71221	AAGCTCATGA	ATGGAGAAAC	TGGGATTAAA	TATAAAGCTT	CCTTGCTCCA	GAAGTGTCTG
71281	CTTTCTGCTC	TTCCACACTA	CCAGCTCAGC	TGTGCTCTCT	ACATGCAGGC	AGTTTTACAA
71341	GTTTCAGATT	AGCCTGGGAC	TTCCAGGGTT	TTGAATGGGT	TAGGGAATGG	GGAACCTTTG
71401	GGTTTACTTT	CCATTTTTC	TTCATACATA	TGTAATATAT	AACATAAATC	TATGGTATAT
71461	ATGATAAAATA	TATGGCTACA	TATGAACTAT	ATAATCACAT	ATATGCATTA	TAAATAAATA
71521	TTAATTTTAT	AATATTTTAA	AGGTATATCAA	ATAAATATTA	ATATAAATAA	TTAAATAAAT
71581	AATACTCAGC	TTTGTTTTCC	AAAGTGATAA	ATGCCTATAT	TTAGCAAAAT	ATTTTTTGGG
71641	GGCCTGATAG	TTTTTAGGAG	TGTAAAGAAAG	TCCTGATATC	TAAATGTTTA	AGAACCACTA
71701	TTTTAGGCTG	TTGTCTTCTG	TCTTATTTTC	CCAGCTAGAC	TGGTAAATAC	TTGAAGGCAA
71761	ACGTTTAGCC	AGCACATTAA	CATTTTATGT	TTTTATTCTT	TTGTGCTCTC	AGTGGCTGTG
71821	TCTTTTCTAT	CGATTTCTCA	CACTGTATGA	TGGTTATATT	TGTCTGTATC	TGTCCCACCA
71881	GGTATAAGTT	CTTGAGAGGA	CACACTGCTA	GGCTGATCTT	AGTTTTTATT	ATTTCTCCTG
71941	GTGTCTCTGT	CTTAACAAGT	GCTCATTAAG	TGTGTAAAAA	CACAGCACAG	TAAAAAACTA
72001	GACATTAATA	AATAATGTCA	ACCAATCTAT	TGAAATTTGC	ATTTCCATGT	TTCTTCCAAT
72061	ATAGTCATTG	TGTCAGGTTA	TGTACTTATT	CTGATGAAGA	CTATTGCCTA	ATATACGTTT
72121	GCATCTTGTG	CTTTATAACT	GCCTTCATAT	AGACACAGAT	TGAGAAGGTG	TAAAAATGTG
72181	CATATCCTCA	CAATTGACAA	ATTCTTATCC	TTTGAGGGTA	GGTTTGACTT	TCTGAAATGC
72241	TTTGACATCA	TTTGAAAGAA	GCTTGAAGAA	TAAGATAGCT	GTAAATGACC	CAGTTTCCTA
72301	TGTCACCTAT	ACAATTATAA	TGGCAATTTT	AAAAATGTTAG	GTAAATATAT	TTTGCAATAT
72361	ATTGTTCTCT	TTGTAATACT	CTCTATGTAT	TTATTTATAT	TTTTAAATTT	TATATTTATG
72421	TATTTATTTT	TCTGGACAGA	GTCTTGCTCT	GTGCCCCAGG	TTAGAGTGAA	GTGTTGTGAT
72481	CATAGCTCTC	TGCAACTTCA	AACTGCTTGG	CAAAAGTGAT	CCTCCTGCCT	CAGCCTCATG
72541	AGTAGAGTAG	CGGGAACCTAC	AGGCGCATGC	CACTGCACCC	AGCTAATCAC	TATTTATTAT
72601	GCTCCTACTG	TGTGCTTTAG	TATATTTTCT	GTTGTTTCT	GCAACCCATT	TTGAGGGCGT
72661	GTTAGGGAAT	ACAGATGCAG	TAACTTTCGT	CTCAGCCCTT	GAGGTGAGGA	AATATTTAGC
72721	CTCAGGTTTA	ATCTAATTGT	TGGCCATTTG	CCTTCAAAGA	TTGAAATATG	AGCAAACTG
72781	TGGCTCTGGG	TTATATGTTA	AAAAAAAGTT	TATGGGGCTG	AAGCCAGGCA	ACAGACAAGA
72841	GCCCCTACAA	TCTTATTTAG	GCTGAAAATA	TCCTGGAGTC	CCTGTATTGT	TGGTCTCAAG
72901	CAGATAGCAA	CACCTAACACT	TACTCTTTGA	GGCAGGCACT	GCCAGTGGGG	TGGCTGTTAT
72961	TATTAGCTTC	ATTAATTTGGT	GAGTCAGGAA	AAAACAGCTT	TAAATCATTC	AAAGTTCTGG
73021	CCTATACAGG	ATTTAGTAAAT	ATTAGGTTAG	CTACATCCAA	AAGATGACAG	AACCCTACTC
73081	TAAGGCTGGG	CTTGGTGGTT	CACACCTATA	ATCTCAAAAC	TTTGGGAGGC	TGAGGCAGGA
73141	GGATCACCTG	GTGCCAAGAG	TTTGAGACCA	GCCTGAGCAA	CATAGTGAGA	CCCCTGTCTC
73201	TATCAAAAAC	AAAGAACTCT	AATTGGCATA	GTAGAAGGAA	AAAGTGAAAG	AAAAACCAGC
73261	TGTCACCTCT	ATTCCCTTACA	CCTGTCCCTAA	CAACTCCTCT	CACTATCCTT	TGAATATATC
73321	TTGGCTGTTT	GAGTCTCTCT	CTAGCCCCAT	TACTGCTGTT	TGGACTTGAC	ATTTTGTCTC
73381	GCATTTTAA	CTTTTCTACC	AGGGTTTCCA	GACCTGAAG	AGTGTGGCAT	GAAACAAAAC
73441	TAGTCAACCT	ATAATATTTA	TGATGTGTGT	GTAAATAAAA	GAATACACAA	TATATTGCAT
73501	TACAATATTT	TAACGTGTGC	CTCAATTTGT	TTGTGGCTTT	CTTGAGGACA	TCAGTTTGGG
73561	GTGGGACGAC	CACATCCCTTA	ATCTGAACTT	TCCCTTGGAG	GTCATTCTTT	TTTTTTTGAA
73621	ATAGAGTCTC	GCTCTGTCTC	CCAGGCTGGA	GTGCAGTGGC	GCAATCTCAG	CTCACTGCAA
73681	CGTCCGCCCT	CTGGGTTCAA	GTGATTCTCC	TGCCCTCAGC	TTCCAAGTAG	CTGGGATTAC
73741	AGATGCACGC	CACCATGCCG	AGCTAATTTT	TGTATTTTAA	GAAGAGACGG	AATTTACCA
73801	TGTTGGTCAG	GCTGGTCTTA	AACTCCTGAC	CTCATGATCT	GCCCACCTCA	GCCTCCTAAA
73861	GTGCTGGGAT	TACAGGCGTG	AGCCACCCCG	CCCGGCCAGA	GGTCATTCTA	ATAGACTTTT
73921	TTTTTGTGTT	TGCTCACAGG	CTTGTTCAAT	CTTATTTCAA	AATTTGAGAA	ATACAGTTTC
73981	CATGGAACAC	CAACCAGATA	TCAGGTTGCT	ATGGAGTTGA	TAGTCAAAAG	CTTTGTATCT
74041	TCCAGTTTTT	CAGAATGGCT	TCTAAAGGTT	CTGATTCAGA	GCTCTTAGGC	GAAATTGAAC
74101	AACCAAGTGT	CAAAGTACAA	CATTCAGGAA	GTAAAAACA	TGACTGACAT	ATATGTACTA
74161	TATATAGTGA	GCTTGTGTAT	GTGTCAATGA	ATGATTTAAT	TCATTAATGA	AGGAGGAAGC
74221	AGAATCACAA	TTAGGTCAAA	GGAAGATACG	GGAGAATAAA	ATATGTATTT	GGTCAGGGAA
74281	AGGATGTATA	CTGGAAGAGG	AAGGGAAAAT	CAGATATAAA	GTTGTTTAAAT	GACTTATTAG
74341	GCAATACAAT	AATAACTTTT	AGGGTCATTT	TTTCTATATT	AAGAATTCAT	TTCCATCTCT

Figure 1 (Page 23 of 73)


```

74401 ATGACAAAAT CCTTATTAAT TTATTAAACT TCTACAAGTG AATGTTTACT TTTAGATAGT
74461 CTGGACCCAA TAAAATGTAA ACATTAAGTC AGAGTTACTT TCACGTAGGA CAGTGTGTGC
74521 CAATAAGGTA CCACTAGCTA CACGTGATCA TTGACCATTT GGACTATAGC TAGACTGATT
74581 TAAAATGTTT TAAAAGTGTA AAATACACAC CAGGTTCTGA AGATTTATCA TTTAAAAAAG
74641 AATGTCAACT GTCTTTTTTTT TTAGCTTATT TATTATATGT TGAAGTGATA ATAGTTTAGA
74701 TATATTAAAGT TAAATAAAAT ATCTTAAAT TAATTTTACT TGTTTCTTTT CATTCTTTCA
74761 ATGTGACCAC TAGAAATCTG GAAAGTATTT ATGTGATTCA CATTCTATTT TACTGTCTAG
74821 TATTGCCTTA CATCATCAGG TACCCATAA GTAGGCTTTT TAGATAATTC TCTAATATAG
74881 CTTGGAAGGA TATGGAGAAA TATTTTTGCG TTGCTTTTAA GTTTTGCATA ACTTTTTCAA
74941 CACACTTTAT AAAGGATCTA GAAAAGGGTT GGTACATGT TTCTCTGTCT TCTGGCCTCC
75001 ACCATGTTGC CAGGAGGTTG GGGACAAGAT TCTGGGTGGC TGGATGTCCT AATGGCTTGA
75061 GGTCTGGACT TGAGATTTGC ATATAAAGAG ATGTGATTAG ATTGAGTCGA CTAGAAAAAT
75121 CATATTAGAG AACTGAATCA CACGATTAA ATTTACATGT CGATTTATAA ACCAGGACAC
75181 CAATTTATAG TGAAAGAAGG TCCAGTTACC TGGTAATCAA GACGTTTCAT AGCTATTTTC
75241 ATGATGGATA TACTTAGCTG AGTTTTTAAAT GAGAAGGGGG TTCATTGCAC ATAGAATAAG
75301 ATCTAAGTGA AATGTTTATT TTATTTTTTTT TTTTTTGACA TGGAGTCTTG CTCTGTTGCC
75361 CAGGCTGGAG TGCAATGAGG CAATCTCGGC TTCTGGAGTG CAATGAGGCA ATCTCGGCTT
75421 CTGGAGTGCA ACGAGGCAAT CTCGGCTCAC TGCAACCTCC ACCTCCCGGG TTCAAATGAT
75481 TCTCTGCCCT CAGTTTCCTG AGTAGCTGGG ATTAGAGTTG CCTGCCACCA CGCCAGGCTA
75541 ATTTTTGTAT TTTTTTTAGT AGAGATGGGG TTTCACCATG CTGGCCAGGC TGGTCTCGAA
75601 CTCCTGACCT CAGGCGATCT GCGCGCTCA GCCTCCCAA GTGCTAGGAT TACAGGCGTG
75661 AGCCACCAAG CCTGGCCTAA GTGACATGTT CTTATATTGT TCCTTTCTTT CTTTTTTTTT
75721 CGACTGAGTC TCACCTGTG GCACAGGCTG GAGTGCAGTG GCGTCATTTT GGCTCATTGC
75781 AACCTCTGCT TCCCGGGTTC AAGCGATTCC CTTGCCTCAG CCTCCTGAGT GCCACCACCC
75841 CCAGCTAATT TTTGTACTTT TAGTAGAGAT GGTGTTTAC CATGTCGGCT AGGCTGATCT
75901 CAACTCCTG GCCTCAGGTG ATCCGCCCC GAGTCTCCA AAGTGCTAGG ATTACAGGCG
75961 TGGGCCACGG GGCCAGCCT TATATTATTT CTTTTACTAC AATATATTAG TATGATGCAG
76021 GTGCTCAAT TGTTTATACA CTTTCCATAA TTTTGTATAA TTCTTATACC CTGTCACTCT
76081 GAGGAATAGC CGGTCTAAGT GTTTTCCAC CACTGCTAAT TCATCCATCA CTAATCTCAT
76141 TAGACTGTTA ATTCCCAGAG GACATAAGCA CACAAGCAGA CAATGTTTAC AAATGTTTGA
76201 CAAATGTTAT TTAATAAAAC AATGGGGTCA CCCTTAGTCT AAAAGATGTT TCACTTTTCA
76261 TTTGTCATTG AACTCTTATT TGTAGGTTCC CTTTTGACTT TCCCACAATC TAAGGCTGTT
76321 CTCTTTAACA CATATTTTCA TGAAAAACATA TATTTGAGCA GAAATTGTTG GGGAGTTGTA
76381 ATATTACCTT TGTCCTTAAA TATGAATCTA TAATTATATC AAATATATGG GCAGACAATT
76441 TACTTTGCC TTAATCTCAA GAAAAAATA GCAATTACTT GGGGTCGGAG AGTAAAATAA
76501 GAAGTAGTGA ACCTTAAAGT AGCAAACCTT AGAACAGAAT AGTTTCAGAG GGGATGAGAA
76561 GAGGTGATTT TTCAGCTCAT CAACAACAGA TCTTATAATA AATTACATGT TCTGGTACTT
76621 TTCTTGCTTT TCTGTGTTAA ATTTTGCTAT TTAAAAAAAT AAATTTCAA TACATTGTTC
76681 ATCTTAAAAG TCAAGAGTGT GTTTTATTAA AGTCAGTTGC TTTATTTGCA ACTCAAAGA
76741 TATATTTGAG TTCCCAACTG GAGATTGTCC TATATGGTAA CTTGCGTAAG GTATGGTTAC
76801 TGAAAGTAAC CTACAATTTT CATGGGCTGA AATTCATTTC TATATTGCAG CGTACAAAAA
76861 TAAATAAATA AAAAATGCTT GTTTTCTTTG AAAACATATT ATCTCAGTGC CTCTAACTGC
76921 CAAATCTATT GGCTTTTTTTG CAGGCTTAAG GGCTCTCCCT TGTTCTCTTA TGATCTCTAT
76981 CTTGAGGGCC AGACCTCCTG CTTACACAA CTCAGAGGGG GACCTCAGAG CTCTTTAAAA
77041 AGAGCCCAAT TTCTCGCCTG TAGAGAAGTG AAAAGGATGC CCCACCCCA TCTATGAAAA
77101 GAGGGATTTG ATAGTTTCAA TGTCTTCAA TCAAAGATTT AAGTCTGTAG CCCCCACCA
77161 CCCCAGGACC TAGCAAGGCT CATGAACCCC CTCCCATCCC GCCCTAATTG CTTTGGACTG
77221 GCCGTGGAAT CCTTGTCCTA GTCCACAGTT CCTGTGCGAC TGCACGAAGA ATTCACAGAG
77281 GACCTGTGTT ACTTCCCTTG TGAAGAAACA GAATTATCAT GAAAATTTAG GTGGAAACCA
77341 TTTTCGCTTT TTCTTCAAAA ATAAGGGAAG CATGTGCCCA ACCACCCCTG GGAAAAAGAA
77401 CCTTCAGGGG CAAAGGAGCG AACAGGTAAT TTATAAGAAA AACAGAAAGT GGTCTCTGAC
77461 TGCCCCAGAC TTCTTTCGGA GTTGGGGGAA TTGGGGACGC CTGGACGCGT TGTTTTTGTG
77521 TTTGTGGAAG AAATAAATGA AGAGCATGAA GCCCAGGCT TCTGAGATCC TTTCTGACC
77581 AAACCAAGT GATTTGGTGC GGGGAATTTT AATATTTTTC CCCTTTTGTG AGGTGGAACA

```

Figure 1 (Page 24 of 73)

```

77641 AACACAACCTT GGGAGCAGCG CAGCGGCTCA GAGCCTGCCA GCCAGGCGGG CGACCAGAGC
77701 ACCAATCAGA GCGCGCCTGC GCTCTATATA TACAGCGGCC CTGCCCAGGC GCTGCTTCAT
77761 CGGCGCTTTG CCACTTGTAC CCGAGTTTTT GATTCTCAAC ATGTCCGAGA CTGCTCCTGC
77821 CGCTCCCGCT GCCGCGCCTC CTGCGGAGAA GGCCCTGTGA AAGAAGAAGG CGGCCAAAAA
77881 GGCTGGGGGT ACGCCTCGTA AGGCGTCTGG TCCCCCGGTG TCAGAGCTCA TCACCAAGGC
77941 TGTGGCCGCC TCTAAAGAGC GTAGCGGAGT TTCTCTGGCT GCTCTGAAAA AAGCGTTGGC
78001 TGCCGCCCGC TATGATGTGG AGAAAAACAA CAGCCGTATC AAACCTGGTC TCAAGAGCCT
78061 GGTGAGCAAG GGCACCTCTG TGCAAACGAA AGGCACCGGT GCTTCTGGCT CCTTTAACT
78121 CAACAAGAAG GCAGCCTCCG GGAAGCCAA GCCCAAGGT AAAAAGGCG GCGGAACCAA
78181 ACCTAAGAAG CCAGTTGGGG CAGCCAAGAA GCCCAAGAAG GCGGCTGGCG GCGCAACTCC
78241 GAAGAAGAGC GCTAAGAAAA CACCGAAGAA AGCGAAGAAG CCGGCCGCGG CCACTGTAAC
78301 CAAGAAAGTG GCTAAGAGCC CAAAGAAGGC CAAGGTTGCG AAGCCCAAGA AAGCTGCCAA
78361 AAGTGCTGCT AAGGCTGTGA AGCCCAAGGC CGCTAAGCCC AAGGTTGTCA AGCCTAAGAA
78421 GCGCGCGCCC AAGAAGAAAT AGGCGAACGC CTACTTCTAA AACCCAAAAG GCTCTTTTCA
78481 GAGCCACCAC TGATCTCAAT AAAAGAGCTG GATAATTTCT TTACTATCTG CCTTTTCTTG
78541 TTCTGCCCTG TTACTTAAGG TTAGTCGTAT GGGAGTTACT GAGGTATCAG ACGAATTGGG
78601 TGACGGGGTT GGAGAGTGGC CGTGGTGAGG TTACAGCATT TAAACCTTTA TTGCGGCTTC
78661 TAGGTCCCTG ACCGGAGGCT TTTCTCGCTG GCGGATGGTT TTGGGATGGC AGTCCCGCCC
78721 CAGGCCTGTG AACGGCAGAA AAGACGCAA AACAAGAGCC AGTTTCTTAG TCTAAAGGGA
78781 TGTCCGATT GGAATAAAAA ATTTTCAAAA GTCCCGCCCT GCTCCCGGGT TGGTCCGTTT
78841 TTCTAGTACA TGACTTTTCT TCTGTATTTA ATTGGATGGT GGAAGACGTT GCTTATTCTG
78901 TGTTTTTCGC TTTACTGTGA CTTAAAGGTT TTGCCTCTTT TCTCTTTATA TTAATGTCTG
78961 GGATTTTCGA CGCTTTCCAT GTTGTGGGTA GTCAAGTTGA TGTCTCCTGG AGGTAGTGGC
79021 AACATCCAGC CCTGGGAGGA GAGTGCCTGC AGGTACCTTT GTCCTACATT CCTCTGCTGT
79081 TAATTTCTCA TTCCTGTGGC AACGAAGGAA TGCATTTAAA AAACAGCCAC AACAGCGGCA
79141 ATAGCCCTTC CTCCACCCAA GGCAATCGTG GACCTAGGGA GTTTTTTGTG CCACATAACA
79201 TGTAGCCTTC CGCTAAACTG ACAGGTTTGA GCGTATCGAT TTTGAGCGTA TCGAAAGCAC
79261 AACTTTTAGC CAGCCATTTT GTCCTCGCAT GACTACGGTT GCTTATCCTG TTTAGACAGA
79321 CAGCAACATT TAAAAATCGA AGTTCCTTTA AACGTATTTT GTTTGGCAGT CCAAATGTTT
79381 CTATGCAGAA AACAGTATTT GTACTATTAA CTATGAAGAG TGTATGGATA ATAGGGAGAC
79441 ATTTCTAATA AAGGCCTTCG TTAATGGTTC CCTCTGTTTG ACATCCATGG TGCTTCTGAA
79501 TACAGAAAAGC CTAGCGTCTT ATATTCGCTT CTTTTAAAAT CTGGTGGGCA CATTTTGGTG
79561 AGACCTAAAT TATGGGGACT GGGGCTTCTG GAGATAAGCT GCTCAATTAT TCTACCATCT
79621 CCACAATGAT TAATATAGTG AGTTGATTTG TTAGTGATAG TGACCACGGA TTCATCCCAA
79681 GAAAGAGAAA GGGGAGGGAG GCAAGCAGAG AGACAGGAAG ACAGAGGCAG GGAAGAAGGA
79741 GAAAACATTC TCCCATGGTT TAAGTAATTT TGTGTTGTTA ATTTTACATT ACAACACGGT
79801 TTAACATGGT GAACCTCTA TTTTGGTGTA AGGTTTAAAC TATGGACATA TTTTCCCAA
79861 GACCATTTAT GAACTTTTCT TTCTGCTTCC CCCTTCTTCC TCCCGTGCCA CCCTCCACGC
79921 TCCTATCAAT TTTGGCTGTT TTGTCATAGG CTAATACGCT ATAATTTTCT GGACAGTTGG
79981 ACTGTCTTAG GTTCTCAGG TTTCTATTTT GTTCCTTTAG TCATCCAC AATTCTTAAG
80041 GTAGAATTGT ATTGTTTAA ACATTGTGTT GTGTGCTATC CTCAATGCTG AGATGATTAT
80101 GTGACAAATG GCAAGTGTTC AACTAATACC TAAATCTGTA GTATCTTATC AAGCCTAATG
80161 CTACTTCACA ATGCCTACTC CATTACCTC ACTTTATCTC ATTACTGGCA TTCTGTCATC
80221 TCACATCATC ACAAGTAAAA CGGTAAGCTA TTTTGAGAGA GATCACAGTC ATATAATTTA
80281 TATTTATATT TATTTATTTA TTTATGAGAC GGAGTTTCCC TCTGTACCC AGGCTGGAGT
80341 GCTGTGGCAC GTTCTCGGCT CACTGCAACC TCCGCTCAC GGGTTCAAGC GATTCTCCTG
80401 CCTCCGCCTC CCGAGTAGCT GAGATTACAG GGGCTGCCA CCATGCCCGG CTAATTTTTG
80461 TATTTTATAGT AGAGACGGGG TTTCACTAAG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT
80521 CAGGTTATCC GCCCACCTCA TCCTGCCAAA GTGCTTAGAT TACAGGCGTG AACCACGTT
80581 CACAGACTCA AATCATTTTT ATTACAGTAT ATTGTTATAA TTGTTGTTTT ATTATCAGTT
80641 ATTGCTAATC TCTTACAGTG CCTGATTTAT AAATTAATT CATCATTGCC ATGTGTATAT
80701 AGAAAAAAAC AGTGTATATA CGGTTAGTA CTATCTGTGG TTTAGGCAT CCACTGGGGG
80761 TGCAGTTTAT TAAACATGCA TTTACATTAG TCTCCCTTT GGGAGACTAA TTAAGTGA
80821 TGTGTAAACG TGACTTTAAT AGCAGATAGA GCTAATTTTC TCTCATTACT CTTCTTTTTT

```

Figure 1 (Page 25 of 73)

80881 AGAATTTTCC TGGTTATTCC ATTTTTTATT TTTCCATATG TATATTAAGA TCTCTTCCAC
80941 CTCCTCCTGT TTCTCCATCT CAACATCAAA CAATTAAAAA AAAAAAAAG GCTGGGCGCG
81001 GTGGCTCACG CCTATAATCC CAGCTCTTTG GGAGGCCTAG GCGGGTGGAT CACGAGGTCA
81061 GGAGTTCAAG ACCAGCCTCG CCAAGATGGT GAAATCCCGT CTCTACTAAA AGTATAAAAA
81121 TTAGCCAACC ATGGTGGCAG GCGCCTGTAA TCCCGGCTAC TCGGGAGGCT GAGGCAGAGA
81181 ATTGCTTGAA CCTGGGAGGC GGAGGTTGCA GTGAGGCGAG ACCTTGCACT CCAGCCTGGG
81241 TGACACAGCG AGACTCCGTC ATAAAAAAA AAAGCCGGAA GCAGTGGCTC ACGCCTGTAA
81301 TTCCAGCACT TTGGGAGGCT GAGTCAGGCA GATTACCTGA GGTCAGGAGT TCAGGACCAG
81361 CCTGGCCATG AAAATACAGC CTGGCCATGA AAACACACAA TAAATTAGCT GGGCGTGGTG
81421 TCACACACCT GTAATCCTAG CTACTCGGA GGCTGAGACA GGAGAATCAC TTGAACCCAG
81481 GAGGCAGAGG TTGCAGTGAG TTAAGATGAC GCCACTGCAC TCCATCTGGG CGACAGAGCC
81541 AGACTCTCTC TCAAAAACT AAATAAATA AAATAAAGTT ATGGTACATT GAACCTCTGT
81601 GTTCTTTTCT CCCTTAGATA CTTTCATGGC TACCCATTTA ATTGATGTTT TTATCATCTC
81661 CAAGAGTTAG TCAGGAGAGG AATCAACCCA AGCAAAAATA GCTGATTTTC TAATTTTCTT
81721 TCAATGCCCT TTGGGGTCTT AATCCATTTG ATTTATGTAC TTTCAATTAA TCCTAACCTC
81781 GAATGTCTTC TGCAAAACATG TTTCCACAGA TGAAACTCGT CAAATGAAAC ACATTCCTTT
81841 AATTTATAGA GTTAAAAATT AGAAAAATTT TCAATTCTAT TTGGCCTTTA GATTCAGTCT
81901 TGCATATGTT TTCTCAATTT GTTTCATGCT CTTTAGTTTT GTTTTATTCC ATCACAATTG
81961 TTCACATAGC TTACTGGCTT AGGTCTAATG AACCATTTCAT TTGGAAATTA AAATTGGCCA
82021 TTTTAAGATG AAAAAGATTC TTGCCCTCAAT TTTACTTAGT TTTTGAACT GTCAATGAGG
82081 ACACATGTTT TTCTGTACTC TTAGATTCAC TAAGTAGTGT CTTGCAAATT TAACTGACAA
82141 AGGACAGATT AACATGCGAA AAAAAGAGCA TGCAATTTTA TTAGTATATT ACATGCACAG
82201 AGTTCCCAA GAAAAAATA TTGAAACCTT AAAAACGCGG TTAGACTCAC AGACTTATAC
82261 ACCATTCCAA CAAAGGAAAG GGAGTTTGCA CTTTCATGGG TGACGAATTT GGGGAATGTGA
82321 CAAGGAAATA AATACATGGG CAATAAAAAAC CATGGAAGAT AAAATGAAAG ATAGAAATAA
82381 TTGTAGTAAG GTTTGTTTTT GCAGAGTCAT CTCAGTGCCA ACCTTCCATA TCTAGTGATA
82441 AGAATTGCTC TCTTTTTCCT GGTATAGCAG TTGGGGACAC TTTTACAAGG GAAATTTCTG
82501 TCACCTTCAC AAAGGGAAAT TTGGGTAAAG AGAAGACAGA GACCTCTTCC TACACCTGTT
82561 GATTTTCAAT TGCTTCAGC TGAAAATAAC TTTTATGCCA AAGTAGAATA ATTTGGGGGT
82621 GACATCCTGA TATCTTCAA AACTTATATT TAATTTTACA TTAGTAATTA TATCATTTTT
82681 GATTTTAAAA TTAGTTTTAT AAAATAATTT TGAAAAACGG TAATAATATT CAAATAATTC
82741 CAGAAACACT GCTGATAAGC CAAAAACATC AATGAATATT GCATAAACAA CTGATAATTC
82801 AACCATGAAA ATTTATGACA TTGTTCTTGT GTGATAAAC TATGAGTAAC ATAAAACTA
82861 GAGGCTACTT GTAATGCATT ATTCCAAACT TTCTGTTTTT TATTTATTTA TTTATTTATT
82921 TTGAGACATA GTCTCTCTCT GTCACCCAGG TTGGAGTGCA ATGGCGTGAT CTTGGTTTCC
82981 TGCAGCCTCC ACTTCCCCGG TTCAAGCAAT TCTCCTGCCT CAGCCTCCTG AGTAACTGGG
83041 ATTACAGGCA CCTGACACCA AACC CGGCTA ATTTTTTTGT ATTTTTAGTA GAGACGGGGT
83101 TTCGCCATGT TTGCCAGGCT AGTCTCGAAC TCCTGACCTC AGTGATCCAC CTACCTCGGC
83161 CTCCCAAAGT GCTAGGATTA CAGGCGTGAG CCACCATGCC CGGCGCATT TCCAAACTT
83221 TCATACACAG TGCTATCATG GCTACAAATT GAAGTATCAT ATTATACACT CCTAGGCAA
83281 GCTCTGGATA TTTTGGCTAT ATAAGCCTGA GGGAAATGTA GTAAGGACAT TGTGGTTGAA
83341 ATTCATACCA GAGATGAACA GGCCAGTGTC AAGACAGAAT TACATCACTA AAGGATATCA
83401 GAAGAGAATA GGGATTTAGG GTACAGTGGC AACACAGTT TTGGGAAC TA GCATTTTTTG
83461 AGCACTTATT TACAATATGC CAAGCACTGT TGCTGATTAC TCTATATTTA TTTTCAAACA
83521 CATCTTGTC ACAGCACTTT GAAGTAAGTG CCATTGTCAT TCCCACTTCA GGGTGAAGGA
83581 CTAAAGCTTG GTGTCATTAA GGATGTAGCT AGTTAGCTGT GTGTGTGTGT GTGTGTGTGT
83641 GTGCATTTTT TTTTAAATTT AAAGTCAATA AATTTTTATT TGAAGAATT CACATCAAGG
83701 TAAACTTTGT TCCTCTAAAG AGCTGGAGTC AAAATGTATC TTCAAAGAT TCATCTTCAA
83761 GTTAGCCCTT CTTAATAGAA CTGATGCTTA ATCCACAGTT GTCAGCCAC AGTTCTTTTA
83821 TTTTGACTTT TTTTTTTTTT TTTTTTTGAG ACGGAGTCTC TCACTGTCAC CCAGGCTGCT
83881 GGGCAGTGGC GTGATCTCGG CTCGCTGCAA CCTCTGCCTC CCGGTTCAA GTGATTCTCC
83941 TGCTCAGCC TCCTTAGTAG CTGGGACCAC AGGCGCATGC CATCGTGCTC GGCTAATTTT
84001 TGTATTTTTA TTAGAGACAG GGTTCAC TA TGTGGCCAG GCTGATCTCA AACTCCTGAC
84061 CTCATGATCC GCCTGCCTTG GCCTCTCAA GTGCTGGGAT TACAGGTGTG AGCCACTGCA

Figure 1 (Page 26 of 73)

84121 CCCGGCCTTA TTTTGCCTTC TTTAATCTCC ATTTGAACAT ACACATACTG ATGAAAACTA
84181 CAACATTCTT CACCAAAAAAT CTTTGGGATT TAATTTCTTC AACCACCTTA CTTTGGGGTC
84241 ATTTTAAAGAT TAGGTGTATC TGCCTGGTTC TCAATTTGAC ACCCTTTCTC TCTAAACATG
84301 AATGAGTTCC AATCATATTT ATTCCTAAGC TATCACACTC AAATATACTA CAGATCTGTG
84361 GAATATGCCA AAAGTTAAGG TGAAAAAATTA AATTATTAGG TATTTTCATAG TTTTGCTAGT
84421 TTTTGATCTG TGAGTGAATA TAACTATCCT CTATGTCCCTG GCACTGTTCC TCAGAAACAT
84481 AGGGTCCACA TATGTAATTT TAAATTTTTT AATAGGCACA TTTTAAAAAG TGAAAAAAGA
84541 AATCTATTTT AATGATTTGA ATCCAGTGTA ACCAAAAATT GTTTCAACAA GGTATCTAAT
84601 ATTAAAATAT TGAGTTTTTA CTTTGTTATT TTAGTAGTTC TTTGAAATCT GGTGTGTATT
84661 TTACACTTAA AGCACATCAC AGTTTGAGT AGCCACATTT CCAATGCTTA ATACTCACAT
84721 ATGGTTAGTG GCAACTATCT TGGACAGGAC AGCTTTTATA CTCTGGGAAG ACACAAGCAA
84781 ATACTTGCTC TGCAGCAGAA TCCAGATGTT TTCCAAGAAA ACACTTTTTT TGACCTGTTT
84841 CTGAAAACCA GGTAGTGTCT CTAATACCTT ATATTTTATT GGTGTGTCTT ATTGTAACCA
84901 CCCAACGGGC TCTCCTTGTC CACTTCTTAG ACAGAGCTGA TTTATCAAGA CAGGGGAATT
84961 GCAATAAGGA GCCAGCGCTA CAGGAGACTA GAGTTTTATT ATTACTCAAA TCAGTCTCCT
85021 TGAGAATTTG GGGACCAAAG TTTTAAAGGA TAATTTGATT GTAGGGGACC AGTGAGTCGG
85081 GAGTGTGCT TGGTTGGGTC AGAGATGAAA TTATAGGGAG CCTAAGCTGT CCTCTGTGTC
85141 TAAATCAGTT CCTGGGAGTG GTGGGGTGGG GGACTCAAGA CCAGATAATC CAGTTTATCT
85201 ATATGGGTGG TGCCAGCTAA TCCATTGFGT TCAGGGTCTG CAAAATAGCT CAAGCATTGA
85261 TCTTAGGTTT TAAAATAGTG ATTTTATCCC CAGGAGCAAT TTGAGGTTTA GAATCTTGTA
85321 GCTTCCAGCT GCATGACTCC TAAACCATAA TTTATAATCT TGTGGCTAAT TTGTTAGTCC
85381 TGCAAAAGCA GTCTGTCTCC CAGGCAGGAA AGGGGTTTGT TTCTGAAAGG GCTGTTATTG
85441 TTTTGTTTTA AAAGCAAAAG TATAAACTAA GCTCCTCCCA AAGTTAGTTA ATCCCAAAT
85501 CAGGAATGAA AAGGACAGCT TGGAGTTTAG ACGTTAGATG GAGTCGGTTA GGTAAAGATCT
85561 CTTTCACTGT AATAATTTTC TCAGTTATGA TTTTTCGAAA GGCAGTTTCA CTGTCCACTT
85621 CACCTCACAT CAGGCCCTCG ACTAGAGGAT TCCAACAATA CTTAGGCCAG GACACCACCA
85681 TGTCTCCTTA TCCACCCTGA GGGAGTCCAA TTTCTGAAAC AAAGGAACT ATATATGATA
85741 GTATGAACT ATATATGAGA AGGAAATTAT ATATGATAAT CAATTTTAGG GTTATCTTAT
85801 TGATTAGAAG ATATTAAAGT GTGACACTGC CTGGCAATGA TATCTGCTGG TAGTAAGAAT
85861 TTGGCGAATT TAGTGAAAT CTTGAGGCTG AACCTCCACT TCTGTAATAAT GGAGACAGTG
85921 AGATAATTTG CCTTACAATG CTGAAGTAAG AATTTTACAC AATAATTCAG ACCAACCACT
85981 TCATGTGGTA CTTGGCCCGT GGAAGACTAT CAATGACAGT TAGTTTATAG TTTTATACTAT
86041 TAATGAATCC TTTGTTTCAT TGTTATTTCC TTCTACACGT TGGCCTCTCT AAAAGAAGGT
86101 AATATTCAT ACAAATAAAG TTAACAACAGC TTGCAGAGTT GTCCCAGGGA ACTCACTTAA
86161 CCACTGAAGT GTTCAAATG CTTAAGGTTG ACTTTATATT CTCTGACTA ACCTTTCTCC
86221 TTCTGGTATT TCTTCTGAGA ACAGCACCAC CATCCAAAGC ATCATGCAA CAGTGGTCAT
86281 CCCAGACCAG TAATTCCTCA CTCACAGGCT GCTCCTGCAG AGATGTATTT GAATAGAGTG
86341 GTAGGATGCT GAAGAAGGCC ACGTAAAATT TGGCCAGTGA TCTGGGGCAG ATTTATCCTG
86401 AAGCTAATGA AACACAAGTG TAAGGGCCTG TACTTCCAAG GTGCAGAGAG GGGCCCTACA
86461 AATGTGTTAG TTTGTCTCTC TCTCTCTCTC TGATTTTAAA ATTTGCAGTA TTAAGGTACT
86521 TTAATCACGG ATGGTTCAGG CTGCTATTTT CACTCAATCC TCCTTTTTTAT TAAAATCACC
86581 ATTGTCTGAT TATGTTAGAA TCCTGATGAA AATATTTGGA ATTTGAGTAA GAGAAAGTTT
86641 AGTTGAAGAT GTATCTAGTA TGGGGATAAT AAGTTACGTG ATTTGCATAT GTGATCATGT
86701 GTACTTCATT CGTTGCCAGC CAATCTGACG TAAGAATGGC TTCAAGGAGG CCGGGCGCGG
86761 TGGCTCACGC CTGTAATCCT AGCACTTTGG GAGGCCGAGA CGGGCGGATC ACGAGGTCAG
86821 GAGATCGAGA CCATCTTGGC TAACACGGTG AAACCCCGTT TCTACTAAAA ATACAAAAAA
86881 TTAGCCGGGC GTGTTGGCGG GCGCCTGTAG TCCCAGCTAC TTGGGAGGCT GAGGACGAG
86941 AATGGCATGA ACCTGGGAGG CGGAGCTTGC AGTGAGCCGA GATTGCGCCA CTGCACCTCA
87001 ACCTGGGAGA CACAGCGAGA CTCCGTCTCA AAAAAAAAAA AAAAAAAGAT GCTTCAAGGA
87061 ATGTTCCCTAC TGCTCACTGG AATAACTCAC CTAAATTCCT GGCAAGATGC AGGTCTAGAT
87121 AAAATGTTAT GACATCTAAG TATTCAAAAC ACATTCCCAG CACTGAGAGT GAGTGTCTAG
87181 TGGAGAGTAG AAACGTATAG AGCCAGAAGC TAGTCTGGAA AGAATTCTTA CAAAGTTTAC
87241 AACTTACATG TGAAAGGAGC TTAACAGAGG ATTTTCCAAA TTTGAAAACA ATCTAAAAAA
87301 CTTACTTGAC ATTACCAATA ATGTGTTTTG AACTGAAAT ACTTCTAAGT TATGAAGAAA

Figure 1 (Page 27 of 73)

87361	ACATATTATC	ATCAGCCACC	CTGGAGGAAA	GATTGAATTC	TATTTCCATT	ACCTATAGAC
87421	AACATTACAA	AATAATTTTCG	ATCTGAAGAT	GGAATCAGAG	TATTCAGTCA	AAACTACAGG
87481	AAAATATACT	TGGTAGTGTC	ATATTCAGAA	GTTAATAAAA	TATGCTATTT	TCTGAATTTT
87541	GTGATGGCTG	TTGTTTTGTC	AGCTTTTATA	AAATTGGAAT	TTGATTTTAT	TTTCCCATTA
87601	TAAATTTATA	TTTACAGTCT	GCAGTACTTT	TGCATTTTTTA	ATTTTACATT	ATAGTTTTTA
87661	ATAGTTAACA	AGTTGTAAAA	GGTTTGATCC	CCAGAAAACC	TTGATCTACC	CCATCAGTTA
87721	AGTATACTAA	TATATTTAGA	AAATGGATGA	AATCAGCATT	TGAATATTTT	TAAATATTTA
87781	TTAAAAGAGG	ACATGGGTAA	AAGAGCTTTG	CAGTTGCCAC	CCTTCATTCT	CAAATCCCT
87841	GGATAAGGAT	GACCGCATAA	TCTTTGGATG	GTCATACGCA	AGTCTTGTGT	ACTTGTTACA
87901	TAAATCTATT	TAGTGGACTT	TTGGCAGTGT	GTACTGAGGC	CAGTTTCTTC	CACCTGAGCT
87961	CTGACTCCAC	CTCCAGCAGC	CCAAAACCAA	TACTGAATTT	TGGGGTCAGC	TATTGTTTTT
88021	GTGGACTTAG	GTAACATACAC	ACACATTGTC	TTTATGATAG	CTTTAATAAT	ACTGCCATCA
88081	GAACATAAAT	TGTCACGTGG	ATTAAGAGGA	GTGACGGTGG	TGTCCCAGG	AGCCTTTCAA
88141	TATGTAAGTA	TTTACACATA	TACATGTCTAA	AAAGACCCCT	AGGAATTTTT	TAACAAGGGC
88201	AAAACAGTAA	CTCAGCTTGT	TTTCTCGCAG	TAAAACCGGT	TGAAAAGGCC	TGATAGACTT
88261	GTCTGCAGTT	ACAAAACCTTG	TGTGTAGTTA	TCACCTTTAT	ATCTCCTGGA	AACTAACATA
88321	GACAAACGAA	TGGGTTACAA	CTGTTTTTAA	GTGAAATTGT	GAGTGGCTCT	GAAAAGAGCC
88381	TTTTCAATGA	GGAAGAAACG	GGCAGACTTA	TGCCCTTTCC	CCACGGATGC	GACGTGCCAG
88441	CTGGATATCT	TTGGGCATGA	TGGTGACGCG	TTTAGCGTGA	ATAGCGCACA	GATTGGTGTC
88501	TTCGAAGAGT	CCCACCAGGT	AGGCCTCACA	AGCCTCCTGC	AGCGCCATCA	CCGCAGAGCT
88561	CTGGAACGCG	AGGTCGGTTT	TGAAGTCCTG	GGCGATTTCT	CGCACCAGGC	GCTGGAACGG
88621	CAGCTTCCGG	ATCAGCAGCT	CGGTGGACTT	CTGGTAGCGA	CGGATTTTCGC	GCAAGGCCAC
88681	GGTGCCCGGG	CGGTAGCGAT	GAGGTTTCTT	CACGCCACCG	GTGGCCGGAG	CGCTCTTACG
88741	GGCTGCTTTA	GTAGCAAGCT	GCTTGCGCGG	AGCTTTGCCG	CCGGTAGACT	TGCGAGCTGT
88801	TTGCTTCGTA	CGAGCCATTT	GCAATGAGAG	CACACACAAA	AGTGTAGTGA	ACTGAGAGCA
88861	AGTGGCCTTT	AAATATAGTG	AGAAACATTC	TGATTGGTCC	TGTAATATTT	CAAAAGTCCC
88921	GCGCGATAAA	ATCATTGGCT	GAAGAGTGAC	CAGACTGATT	GGTTCATTAC	TAGACAATCT
88981	TATTGGATGA	GTTGCCCCAC	CGCCCATCCT	GTCCTTTTCG	TTTCAGTTAT	CTGCAGCGAC
89041	AAATGTCTTA	AAATTCAGT	TCATCCAGTC	CCAAAGAACA	GAGTGTATAA	CAAGGTATCT
89101	AAGGATTTTT	AAAATGTAAA	TTCCGATTCA	GTAAGTTTGA	GTGGGACTTG	AAATTCGTCA
89161	TTCTTGACAG	TCTCGCAAGT	TATCAATGCT	GGTGAACACT	CACTAAACCA	CCAGAAACGT
89221	TCAGACTCAT	GTCGGGAAAT	AACCGTTATA	TTCAGAGAAT	GAGATTCCAT	GCTATTTTGT
89281	TACTGGCGAA	CAGCAAGTTT	CCTTGCCCTT	TGTTTTCTAA	GTCCAAGTCA	CATTCCCACC
89341	CTGCCCTGTT	TCAAAATGTC	TTATTTTGGT	TGGCCTTAAG	TTTCACTTTG	TATACTCTAA
89401	AATGTACTTT	CTAAAGGAAG	GTGTTATTTT	CTCGAAACTT	AACTTTTTTAA	CACCATTAGG
89461	CTAGGGGGGC	GGTGGCTCAC	GCCTGTAATC	CCAGCATTTT	GGGAGGGCGA	GATGGGACGA
89521	TCACTAGAGG	CCAGGAGTTC	AAGACAACCC	TGGCTAAAAT	GGTGAAACCC	CGTCTCGCAT
89581	AAAAATACAA	AAACTAGCTG	GGCGCGGTAG	CAGACGCCTG	TAATCCCAAG	TACACAGGAG
89641	GCTGAGGCAT	GAGAACCGCG	TGAAGCGGCG	GGGTGGAGGT	TGCAGTAAGC	CGATATCGCG
89701	CCGCTGCACT	CCAGCCTGGG	TGACAGAACT	AGACTGTCTC	AAAACAAACC	AATCCAAACG
89761	AAAAGCAAAA	AATACCCCTAA	CAGAAGCAAG	TTATCATCCT	TTCTTGTGTA	ACTATGGACG
89821	GCTCTGAAAA	ATGCCGTTTC	AAGTGTAAGC	TACGTTTTCT	GATTTGAGTG	TTTACTTGAC
89881	CTTGGCCTTA	TCGTGGCTCT	GTTATTTTGG	CAACAGGACG	GCCTGAATAT	TGGACAGGAC
89941	GCCTCCCTGA	GCAATAGTGA	CGTTGCCACG	CTGCTTGTTG	ACCTCCTCGT	CGTTTCGGAT
90001	GGCCAGCTGC	AGGTGGCGGG	GGATGATGCT	GCGGGTCTTG	TCACGTATGG	CGCTGCCAC
90061	CAGTTCTAAG	ATCTCGGCGG	CCAGGTATTG	TAAGTACACT	GGCGCACCGG	CTCCGACCGG
90121	CTCAAAATAA	TTGCCCTTTC	GAAAAAGATG	ACGGACTCTG	CCCTATTGGG	AACTGCAAGC
90181	CCGGTAGCGA	CGAACAAAGT	TTTGCTTTAG	CTCCATTTTC	CACGTCCGCA	AATAGCGACC
90241	TATGAAAAGCA	GCGGAAAACCT	GTGAAAGACA	AGCAAGCTGG	AATGGCGCCT	GAACAAATCC
90301	TTTTATACAA	ACTGCAAGGC	TGCAATAGGA	AGCTATCCTA	TTGGTCAATT	ATGTTTGGTG
90361	CTTTATCCAA	TAGAAAAAGA	TAACATAAAT	TCCATATTTG	CATAAACCCC	ACCCCTCAGT
90421	GAAACCGTGT	TTCTTTTGTC	CAATCAGAAG	TGAGGAATCT	TAAACCGTCA	TTTGAATCTC
90481	AGGACTATAA	ATACATGGGC	TCTGAACTGT	TCTCTGTACT	ACTCTGTAGT	GGAGAGTGTT
90541	AGTAGCTTTT	CTATTCTGTT	TAGGAATAGC	AATGCCTGAA	CCCTCTAAGT	CTGCTCCAGC

Figure 1 (Page 28 of 73)

```

90601 CCCTAAAAAG GGTTC TAAGA AGGCTATCAC TAAGGCGCAG AAGAAGGATG GTAAGAAGCG
90661 TAAGCGCAGC CGCAAGGAGA GCTATTCTAT CTATGTGTAC AAGGTTCCTGA AGCAGGTCCA
90721 CCCCACACACC GGCATCTCAT CCAAGGCCAT GGGGATCATG AATTCCTTCG TCAACGACAT
90781 CTTGAGCGC ATCGCGGGCG AGGCTTCTCG CCTGGCTCAC TACAATAAGC GCTCGACCAT
90841 CACCTCCAGG GAGATTCAGA CGGCTGTGCG CCTGCTGCTG CCTGGGGAGC TGGCTAAGCA
90901 TGCTGTGTCC GAGGGCACTA AGGCAGTTAC CAAGTACACT AGCTCTAAAT AAGTGCTTAT
90961 GTAAGCACTT CCAAACCCAA AGGCTCTTTT CAGAGCCACC TACTTTGTCA CAAGGAGAGC
91021 TATAACCACA ATTTCTTAAG GTGGTGCTGC TGCTATTCTG TTTTCAGTTCT AGAGGATCAA
91081 CTGGAATGTT AGCGAAGACA AGTTTTAGAG CCAAGGTTAA CTTGGACGGG GCCGTGCGCG
91141 GTGCCTCTTG CCTTTAATCC CGGCAATTTG GGAGGCCGAG GCGGGCGGAT CACGAGGTCA
91201 GGAGATGGAG ACCATCCTGC TTAACACGAT GAAACCCCGT CTCTACTAAA AATACAAAAT
91261 AATTAGCTGG GCGTGATGGT GGGCGCCTGT AGTCCCAGCT ACTCGGGAGG CTGAGGCAGG
91321 AGAATGGCGT GAACGCGGGA GGGCGAGCTT GCAGTGAGCC GAGATCGCGC CATGGCACTC
91381 CAGCCTGGGT GACAGAGCGA GACTCCGTCT CAAAAA AAAA AATTA AAAAA
91441 ATATGAAGTT TTGAAGCAGA AATTATTTTG TCGTATGTTT TTTTCATAAAT TTTTGGCCTG
91501 CCTGCCTTCT TCCTTTGTTA CAGAACTCCA ACACCTTACC AAAGGTAGCT GTTGGGTGTCAG
91561 GGTTTCTGTA CTATAGTCCC TTCTGTGGTG GCCAGAAATA TGTTACAGGA AAGAGGTCCC
91621 CATCCAGACC CCAAGAGAGG GTTCTTGGAT CCCGCGCAAG AAAGAGTTCA GGGTGAGTCC
91681 GCAGTGCAAA GTAAATGCAA GTTTACTAAG AAAGTAAAGT GGTGAAACGA CAACTACTCC
91741 ATAGACGGAG CAGGACATTC CCGAAAGTAA GAGGAGGAAG GCATCCACCC TAGGTACAAT
91801 ACTTGATATAT ATGGGGAGAT GTGCTCTGCT ACAAGTTTGT GATAAAGGAT TAATTTCTT
91861 AGTTACTATA TTTTGCAAGA ATCAACATTA TTATCTTTAA ACAAATTA GAATGCCTTT
91921 GTTCTCCAGA TATAGGGATA TCTGGACACT CCTAAGTCTG AGTCTGTTTA GTAAACATTA
91981 TTTATTTGTT CCCTTAACCG TAAACATCTA GAAGCTAGGA ATGACTGACT TTCTGGGAAT
92041 GCAGCCCAGA AAGTCTCAGC CTCATTTTCC TAGCCCTCAC TCAAATGGA GTTACTCTGG
92101 TTCAAGTAAC TCTGACACTT TTCTTCTCTT TTTTCTTCT TTTTCTTCT CTTTATTTT
92161 TATTTTTTAT TTTTGAAATA AGAAATCAAG AATACTTGAT GTTTCATCTA AAACAATACC
92221 CATAATTGAT AAGCCAAAAC AAAACCTAG GTCTTCTAAC TCAAACCTAG GATGTTTTGC
92281 TGTCTCTGCT GATACTCGGC TGATCGTTAA TAGGTAATTA ACAAACAAGC CTTGCTATGT
92341 CCCCCTCAGT TTATTACCAT TAGATCATAT GCCTACTGTC AATCATATTA ATCCACAAC
92401 ATGCATTTCA CAAAACTTGC CATAAAAATT CACAGGTTTC CCGCTTCCCT CGAGTTTTCA
92461 TTTCCGAAGG GTCCCAGTA ATATAAACT TATATTAAAT ACATTTGTAT GCTTTTCTCT
92521 TGCTAATCTT TTTTTTGT TTTTGAGACT GAGCCTTGCT CTGTCACCCA GGTGGGATG
92581 CAATGGCGCG ATCTCGGCTC ACTGCAACCT CCGCTTCCCA GGTTCAAGCG ATTCTACTGC
92641 CTCGCCCTCC CGAGTAGCTG GGACCACAGA TACGTGCCAC CATGCCCCCG TAATTTTTGT
92701 ATTTT TAGTA GAGACAGGGT TTCACCGTGT TGGCCAGGAT GTTCTCAATC TCCTTACCTC
92761 GTGATCCGCC CGCCTCGTCC TGCCAAAGTG CTCGGATTAC AGACGTGAGC CACTGCACCC
92821 GACCAATCTG TCTTTTTGTA GAGGGGCCTC AAGCATGAAC TTAGTGATGG GTGAGAAAA
92881 CAGAAATTTT TTTTCCCTA CAATATAAAC ATTAATTGTA ATGTTATCAT TCAGGACATT
92941 TTGGTGACCA ATCTTACAGA AATTTTATCT TGTGCAAGTC TATGCAAACC AATATGTAAA
93001 TCTTCTATAA GTGAGATTGT ATTTCACTTT TCTAGTATCC TTTTAAATTA ATAAAAGAGA
93061 TTCTAATGAT TATTTTCATT ACTGCATTTT ATTGTAGGGA AGTAGATAAT TGCCCTTTAT
93121 TCACTGACCT TCGCTTTTTA AAAATTTAAA CCATGTTACC ATGAAAATGC TTTTCAGTAT
93181 TTCTCTACAC ACAAGATTGC TGTAAGGGCA AAAATAGAGA TAGGAATCAT GCATCCATTG
93241 ATATACATAT TTTGATTTTT AATACATGTT ACCAAGTTGC CTCCTGAAGG TCTGTTTACA
93301 CTCTCACCAA CAGGGTGTTT TTTCTGACT TCCACAAATG CTCTGAACA GTGGGTGTGT
93361 TAGTCTGTTC AAATTGCCGA CATGAACAAT TAAATCTCAT TGTTGTTTTT ATTTTGAAGA
93421 CAATTATTGT TTGAGACTGC ACATTTTGAT AATAACATTT CTTCTATTAT GGTTTGATTA
93481 CTCATGATTC TTGCCCATT TCTTTTGGGA TGTTGCCTTA TGTACATTAT TTTAAATAGA
93541 TAGCTCCATG TATTA AAAA TTATTAAGTT TGAGGGCTTA TGATATGTCA GTTACATTTT
93601 TAAGATTTTT TTTTTTTTTT TTTTGTAGAC GGAGTTTAC ACTTGTTGCC CAGGCTGGAG
93661 TGCAATGGTG CGATCTCGGC TCACCGCAAC CTCCGCCTCC AGGGTTCAAG CAATTCCTCT
93721 GCCTCAGCCT CCCCAGTAAT TGGGACTACT GGCAAGCGCC ACCACGCCTG GCTAATTTTG
93781 TATTTTTATT AGAGATGAGG TTTCTCCATG TTGGTCAGAC TGGTCTCGAA CTGCCGACCT

```

Figure 1 (Page 29 of 73)

93841 CAGGTGATCC ACCCGCCTCG GCCTCCCAAA GTGCTGGGAT TACAGGTATG AGCCACTGGG
93901 CCCGGCCACA TTTCTAAATT CTTTATAAGT ATAAATTCAT TCAATCTTCA CCAAAACTCA
93961 ATGAAGTGTG AGTACTATTA TTATCATTGT TTTACAGATC AAAACAAGTA ATACAGTCAC
94021 TTACTGAGTT CTATACACCT GGTAATTTTT TTGTTTCGTT GTTCTATCAA TTATTGGGGA
94081 AGGGGTGTTG AAATCTCTAC CTTTAAATCA TGTATGTGTC TATTTCTCCT TTCGGTTCTA
94141 TCAGGTTTTG CTACACATAT TTTGCAGTTC TGTATTTTGG TGCATATACA TTTAGAAATG
94201 CTTGTTTTTC GTATTGGATT GACCCTGTTA TCATTATGTA ATATCCCTGT CTGTTCCTAG
94261 TAATTTTCTT TGCTCTGAAA TATACTTATC TGATATATCA TCCAAAAGAC CACCAGGATG
94321 GCTAAAGAGT AGAAAGGAGA GATT'TACTGG CAATACTAAT TTGCAAGCCA GGAAGAGATG
94381 GTCCCAGAAC CTGCCAAAAT TACTCTCTCT TTGGGGAGAA GGAGCAGGTT GGT'TATTTTT
94441 ATGCCTCATA GGCTATATAT TACACAATAG AGTCATACAT ATTTAGCACG TTTGGGGGGA
94501 CAGCTATATA TATTATGAGG GGTGCCAAGT GCATT'CACAA TGGATAAACA CGTGTAAATAT
94561 ACCTCCCATG TTCAC'TCGA GGT'TAAATTT TGGTTAAAT GAGGTAGAAT TTAGGTCTTT
94621 ACATCACAAAG GTGAAC'TATA GGAACAAAGT TTACGTGCTG CCTCTAGCAG CTGGCTGAAA
94681 ATGGCTTAAG GTCTACAATT ACGTGTAAAG ATAGAATGTG TGTCAAGGCG GTCCCTCTGT
94741 CAATCAGAGT TG'TAGTGGAC TGGACTGTAA ATCAGAGTTA GGAGGGCTTC TGATAGCTCC
94801 TATAGTTAAG GAATTTAGCA AGTGTGAGTT TTTTGGTAGT CTTTGG'AAT TAGGAATTTG
94861 CCATGCCAGC CAAGCCATGA ATGCTCTACC AGTAGGTAAC TTTGTTTGCT TAATCTTAGA
94921 GTCTGTCTTA GTTGGTATAG GGGCATCTAT TTTGGTCTTT CAGATCCCAG ATATTATTAA
94981 TACAGATACT CTTGCAGTTT TGGGCTGATG TTTATATGGC TTATCTTTTT TGCAGCCTTT
95041 AATTTCAACC TGCGTTATGT TTATATTTGA AGTGAGATTC TTGCAGACAG TGTACAGTTG
95101 TTGTTTTTTTT TTTTTTGAGA TGGAATTTCA CTCTTGTTGT CCAGGCTGGG GTGCAGTGGC
95161 ACAGTCTCAG CTCACTGCAA CCTCCGCCTC CTGGGTTCAA GGGATTCTCC TGCCTCAGCC
95221 TCTTGAGCAG CTGGGATTGC AGCCATGCGC CACCACACCC GGCTAATTTT TGTATTTTTA
95281 GTAGAGACAG GATT'CACCAT GTTGCCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
95341 CGCCAGCCTC GGCCTACCAA AGTGCTGGGA TTACAGGTGT GAGACCTCGC GCCCAGCCAA
95401 ACTGTTTTTT TATGGGTGTA TTTATACCAC ACACATTTAA TGCAAT'TAT GATATCTTAG
95461 GGCTTAAGTT CATGAAGGGT AGTGTGGGAA CCATAGTCTC TTGGCCCACT AAATGTTTGC
95521 CAGAAATCAC TGACAAGGCA GATTGATTAA TAGGTGAAAA GGCATTTTAC CTATTGTTTA
95581 ACGTGTCTAT GTGGGAGCAT TCAGAA'TTAA TTACCTAACT TCCCAATGAG TTATAGATGT
95641 TTATATACCA TTTT'TAGATC ACAGAAAGAA TTGGGGCTTA GATTCTGGTA AAACAGGTTA
95701 TGGGAGGCAA AAGAGGTTTG GCTTGCAAAG GTGGCCTTGT TAGGTAGGTG AAGCCTCCCT
95761 CAGAAAGAAC AGATGGTAAA TGTTTTCTTT ATGATTTTTA AGTGT'CAGAC TCTCAGTCTC
95821 TCCTGGATCT GGGGAAAGGT ATAGAAAGGT GAGGAGGCAT GGCTGCATTA ATGGAGATTC
95881 TCTACAGATG TAAAATTTTT CCCATTTAAG GCAGCTTTGC AAGCCCATTT CTGCCTGCTG
95941 GCCAAGCAGC AGCCATTTCA AAATATGTCA AAGAAATATA TTTTGGGGTA AAATATTTTG
96001 ATTTCCTTTA GACTGGTGGC CTTATAAGAA AAGGAAGAGA CACCTGAGCT GACACACATA
96061 CCCTTGCTCT CTCAACATGT TATGATGCAG TAAGAAGGCC CTCACCAGAT ACTAATTCCA
96121 TGCCCTTAGC TTCCAGGTT CTAGAACAGT AGGAAATAAA TTTCTTTTCT TTAAGTTTA
96181 GCCAGTCTGT GGTATTCTGT TATAGTATCA CAAAATGGAC TAAGTAAC'TA TATTATGATC
96241 ATCTTACATG ACTGATCCCT CCTACATCAT ACACATACAC AGGCCACATT TGGAACATTG
96301 TTAGAGGTTT CTCTGCCAG TACAAATGTA CTACAAATTA TATATGTATT TTTAAATTTT
96361 TGAGTATCTT CAATAGTATA TTTTCGTTAA CTTTTGTAGT CAAAATGTCA TTATAACATG
96421 TATTCAATAT GCATAATTAT TAGTCAGATG TTTTACATTC TTTCTTCATA CTAAGTGATA
96481 TGGTTTGGAT ATTTGTCCCC TCTAAATCTC ATGTTGAAAT GTAATCTCCA ATGTTGGAAG
96541 TGAAGCCTGG TGAAAGGTTT TTGGATCGTG AGGGTGAACC CCTCATGAAG CGCACTCTTC
96601 AGGGTAATCA ATGGGTCTCT ACTTTGAGTT CACAAGAGAT CTGGTTCTTT AAAAGAGTGT
96661 GACACCTCCC CCATCTCTCT CGCTCAGCTC TCACCATATG ATATGCCTAC TCCCTCTTCA
96721 CCTTCCACCA TGATTGGAAG TTTCTGAGG ACTTGCCAGT AGCAGATGCC TGCACCACAC
96781 CTCCTGTACA GCCTGCACAA CCGTGAGCCA AAAAAATTA CTTTTCTTTA TAAATTAGTC
96841 AGTTTCAGGG ATTCCCTTAT AGTAATGCAA GAACGAAC'TA ACACACTAAG TCTATTTTAT
96901 ATTTACAGAA TAGCTCAATC TGAAGTACCC TTTTTC'AACT TCACAGTAGC TACTTGTAGC
96961 TAGTGGGCAC TGATTTGGAG CGTGTTC'AAG GGTGAATTGT ATTATGCAAT TAACAGATTT
97021 TTTTATTTGT TTTTCGCAAAC CACGAGGCAT AGATTGTCTT ACTTTCTCTG CTCCTGGTGT

Figure 1 (Page 30 of 73)

97081 TGGAGTTGTT ATTGGGAAAC AACTTATTTT CCTCTTATAT TTATATGGAA TAAATAACCC
97141 CCAATATTTT CCTCCCCAAT ATCTGCCTTT TGTATGTTTT TTGAAGGCAA GTGCCTAGAA
97201 TTTACTGTTT TTGAAGCACT TACTGAAAGG ATTGCCATCA AGTTGTTTTG CTAATAGTAC
97261 ATGCCAGGCG CTTGTTGGTT TGCTTAATTTC AAGGTAACCT GGATGAGAAG AAGAGTTTTT
97321 CTCATCCATG GCTCAGTGGA GTATAGATTA CTGATATTGT GACTGGATGT ACTCCTGCTT
97381 TCTAGTCTGA GTTTTTGAAG CTACCCCTTAA TCTTGGTTTC AATTTTATCT AGCCCTGTAC
97441 ATATCCAAGG CTCTTTCCAA AATGGTCTAC GATTTGTTTA GGAAGTTAGA ATAGCTGTAC
97501 TTTCTGAACC ACGGTTCCCTG ACATTTTCTG GACTTCAAAC ACATCCAGCA TTTTATCGAA
97561 GTATTTATCC TTCTTACTTG GCTGGCTTCT TCCTTGCTT CAGGTCTGAA TTCAAATGAC
97621 ATTCTCCTGA TGAACTTTT CATCCTTATT TCTATTCTTT TTTCTTATCC CCTTTCTTTA
97681 TTTTCTTCCA CAGCACTCAT CACTTATCTC TACATTTTCA TTATGTATTT ACCTTATTGT
97741 GCACCTCCCA CTACAAGACA AGTAGCACCG TAAGGAAACA GGTTGTCTGC TTTTTCACCTG
97801 CTATGCTCCC TGCACCTAGA ACACCTCTCG GCACTTAGCA GGTTTTCTAGT AAATATATGC
97861 TGAAC TAATA ATGCTGGATA TACATCTCCC TCATGAACTC TCTAAATCCT TCTAATTTAC
97921 ATTGATCAAT CTTCTTTTCC ATGTGCTTTT GTATGATTTA TTGCTCAAAA TCTTTATTTT
97981 ATATGCAGAA CGTGCACCTG TATTTAATCT TCATGTACGT AAGTCTCTCC TTCTCTGAGT
98041 ATAATCTCTT CAGGGCACTA TCTGAGATAA CTTTTTAACA TCTCCATCAT GAATCTTGTA
98101 CCTTTTCAAA GAAAATGAGC CAGTGATTAC TGATGTTTAC GGCTATTGTT GAGGGTGAAG
98161 ATCATTATAA TTTTGAAAAG GGAAGTTGAA TATTGTGAAG GGAAAGATAA CACTAGAGTC
98221 AGAAGACTTG GGAGAAGGCA AAAACAAAC TAAAAATGAG CACTTTTAGT CTCCTGACAG
98281 TTTCTCTGAA TCAAATCCAT AGTTCCTGTA CAGCGTTGGC TTAGAAGCAG ATTTTTTTTT
98341 TTTTTTTTTT TGAAATGGAG TTTTCGCTCTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC
98401 GGCTCACTGC AACCTCTGTC TCCAGGGTTC AAGCGATTCT CCTGCTTCAG CCTATGGAGT
98461 AGCTGGGATT ACAGGCTCCC ACAACCACGC CCAGCTAATT TTTTGTATTT TTAGTGAAGA
98521 CTGGGGTTTC ACCATGTTGG CCAGGCTGGT TACGAACTCC TGTTCTCAAG TGATCTGCCC
98581 GCCTTGGCCT CCCAAAGTGT TGGGATTACA GGCATCAGCC ACCGTGCCCC GCCAGGAGCA
98641 GATTTTTTTT CACTCATGTT TCTTTTCTCT TCTGTCATCC TGTTTCAGTA TAAGCAGACC
98701 ACAGATAGAA GTAGTAGATA CCTCAGAAAT TCCTGGAATA ATTAATCCAC GTTCATCTGT
98761 ACTCCATCTG CTCTTATCTC ATGGAATATA AAAGGAAAAA CACCAAGATT TCCCTAGGCA
98821 ATCTGTCTTG ATTTTAGGTT CCTCAACAGG AGAGCCAGAC AATGGCTGTA ATAATATTGT
98881 CCCGGCCAAG GAAAACTTC CCCTTTGCCC TCCCAAGGTT TATGGAAAAA TACTGGCAAA
98941 ACACAGATTA ACTGGAGAAA AGGCATATAT ATTTATTTCA TCACAATTTT ACAGGAGATT
99001 TTAGAATTAA GACTGAAAGA TACAGGGGAA ATTGCCCAT TTTATGCTTA GGTTCACAAA
99061 GATAAACAGC TGTATAGGGT ACGATCTAAT GCTAACAGAC TGAGTGGGGA AGCCCCGCAA
99121 GGCTTGCTCG TCAAGATTCT TCTTGACCTC TCAGTGCAGC ATTTCTTCCT TCTGGTTATA
99181 GGACAAGACT CTCTTTTAGA ATGGGGGGTC TTATGACCTA CAGGCAAACA AGGTAGGTTA
99241 GAGTAATACT TTTAGGTTTT ATGGCTGGTT CTAGGGAAAA GGAGTCTGG TTTGTATGGC
99301 CTACCTTGAG GAGGAATTCT GGTTCCTATG GCTAGACTTT GGGGAGAATG GGACTTACAG
99361 ACAGGAAGGC AGAAGGTGGT CAGTGAAACA CTTTTATAAT CATAATCCCA TTTTGAGTAT
99421 TTCTGTGTTA TGGAATGTTT GTTCTCTCAT TTCCTGAAAG ATTCCAGAGA CTCTCATTC
99481 AGTGTGTGTA AAAAGTTCAG GAAATGCAAC TCAAAAATGT GCCACTTTGT TACGCTGATT
99541 TCTTTGAACT GAGGGCACCT AGGAAACAGT AAATTCAGG AAGGGCTTTC GCTGAACTCT
99601 AATCAAAAAT TTGAAAATTA AAAAAAAT TCAAAAAGGAA TTTAGTTGTT AAGATTCACT
99661 TCCCTGGGGA ATCTCATCAA CCAGAGAAGA TTAAGTGTAT CACAGGAGAG GAGACTGGTG
99721 GTTAACACCA TCTAAACAGA CTTTGTACCA GCTGTACCT ATTCTTTGAA ACACCCATTT
99781 ATTTTCTCTC AAAATCATAT ACTTCCCCCT AAGTTGCCCTA CATCCCCCTT CTTTCTCCCT
99841 TATGAATCAA GAGAGCTTAT AAGCTTCTAC AGTTCAGTGG GATTTGGGGT ATTCGCTTTT
99901 CTTCCCTCCC ACTCCCCCTC CCCTTTTTTT GTCTTTGAGA CACAGTCTTC TGGCTCTGTC
99961 GCCACGCTG GAGTGTGGTG GCTCTATGTG AACTCACTGC AACCTCCTCC TCTCGGGTTC
100021 AAGCGATCCT CCCACCTCAG CTTCTCGAGT AACTGGAACT ACAGGCGTGC ACTACCAAGC
100081 CCGGCTTTTT TTTTCTTTTT TCTCCCCCGT TTCTTTTTTT GTTATTTTAC TGGAGACAGG
100141 GTTTCTCCAT GTTGTCCACG CTGGTCTCGA ACGCCTGACC CGCCGTCCTC GGCTCCCAA
100201 AGTGCTGGTA TTACGGGCAT GAGCCACTGC GCCCGATTG AAGGACCTCT TAAATATCTA
100261 TTTAGAAATT GGTCGGAGTC CACTCCTTTC CAAAAACATG AGTCACAATC CGGGAAAAGC

Figure 1 (Page 31 of 73)

100321 ACGAGCGGCT GAAAGTCAAA ATAACCAGAA CAAAACCTCC ACTCATGCTT AAAAAAGGTA
100381 TTTTGACAAA ATCCTAATTC GGCCAATTAT TATTAGTATT CAAGTCGAAG GCTCGTCAAG
100441 CCAGACTGGG GATTGGGTCA AACATAAACC TTACACCAGA CGGAAGGATT ACATGCAAAAT
100501 GAAGGATGCA GATTCTGATT TCCCATTGGG TATTTGACAT TAGCCAATGG GAGAATTCCCT
100561 CACAGCCTAC CTCCAGTCAG TATAAATACT TCTCTGCCTT GCGTTCCTAAT GTAGTTTCAT
100621 TACATTTTCT TGTGGCGATT TTCCCTTATC AGAAGTAGTT ATGTCTGGTC GCGGCAAAACA
100681 AGGCGGTAAA GCTCGCGCCA AGGCTAAGAC TCGGTCTTCT CGTGCAGGTT TGCAGTTTCC
100741 TGTGGGCCGA GTGCACCGCC TGCTCCGCAA AGGCAACTAC TCCGAGCGCG TCGGGGCTGG
100801 CGCGCCGGTG TATCTCGCGG CCGTGCTTGA GTACCTGACC GCCGAGATCC TGGAGCTGGC
100861 GGGCAATGCG GCCCGCGACA ACAAGAAGAC CCGCATCATC CCGCGCCACC TGCAATTGGC
100921 CATCCGTAAT GACGAGGAGC TTAATAAACC CTGGGGCGT GTGACCATCC CGCAGGGTGG
100981 CGTTTTGCCT AATATTGAGG CCGTGCTGCT GCCTAAGAAA ACTGAGAGCC ATCATAAGGC
101041 CAAGGGAAG TGAAGAGTTA ACGCTTCATG CACTGCTGTT TTTCTGTCTAG CAGACAAAAT
101101 CAGCCTAACA GCAAAGGCTC TTTTCAGAGC CACCTACGAC TTCCATTAAA TGAGCTGTTG
101161 TGCTTTGGAT TATGCCGCCC ATAAAGATGT TTTTGAGGTG TTTTAAATGG CTTTGAGTGT
101221 GGCATTTTGA GTAATTTGTC CTGCAGAAAT TAGATCCATA GAAACCTCAG GAATTCTAGG
101281 TATGTGGGAG AAGTGCCATG CAGCACAAAA CATGTTTACA GGGGTGATTC GCGTTAAGTT
101341 TCACACACAG CAGTTACTAC ATTTTAGAGG AAGGAAATTA TACCCATGAG TGCATTCCTA
101401 ACTATCTTGA ATGGAAGTGT TAAAACCCGC ATGCCCCACA CAAGTTTGAA TATGTCATAC
101461 CATTTGCTGT AGCAATTAAT GGCATACACA ATTGAGAGCA CACACATTAC CACTGAACAT
101521 TTGAGTATGT ATTTCCCAA ATGAGCTTTT TTCCAGTTTG GGGATGTTTT GCTTTGTTTT
101581 GGGGTGGAGT CTCCCTCTCG CCCAAGCTGC AGTGCAGCGG CGTGATAACA GCTCACTGTA
101641 ACCTCGAACT CGGGCTCAAG CGATCCTCTT GACAGCCTTC TGAGTAGCTG GGATTACAGG
101701 CGAGAGCCGC CACGCCCGGC TAAGAGCAT TTTCTAATTG CCCACACTTC TTATGCGACA
101761 CCCAGAAAAA TACAATTTTA AATAAAGCGC ATATGCAAAT TTCCCTAATC GTCTCCAATA
101821 TTCTCTGATT TCTTTTTTAT ATTTTAACTA GAAACAATTG GAGGTTTCCG CGTTGCTTTG
101881 TGTGGTTGTA AATTTTAAGA CTTTCAAGAA CTTTTCCAGT ACAAGACTTG TCCACAGTGG
101941 ATATAGCAGC TAAGGGGTTA ACAAAATGAC CTAGAGTAG CTACGGTAAT GGGCAGGAGC
102001 CTCTCTTAAT CTGCAACCAG GCACAGAGAT GGACCAATCC AAGAAGGGCG CGGGGATTTT
102061 TGAATTTTCT TGGGTCCAAT AGTTGGTGGT CTGACTCTAT AAAAGAAGAG TAGCTCTTTC
102121 CTTTCCTCCA CAGACGTCTC TGCAGGCAAG CTTTTCTGTG GTTTTGCCAT GGCTCGTACT
102181 AAACAGACAG CTCGGAATC CACCGCGGT AAAGCGCCAC GCAAGCAGCT GGCTACCAAG
102241 GCTGCTCGCA AGAGCGCGCC GGCTACCGGC GCGGTGAAAA AGCCTCACCG TTACCGCCCG
102301 GGCATGTGG CTCTGCGCGA GATCCGCCGC TACCAAAAGT CGACCGAGTT GCTGATTCCG
102361 AAGCTGCCGT TCCAGCGCCT GGTGCGAGAA ATCGCCCAAG ACTTCAAGAC CGATCTTCGC
102421 TTCCAGAGCT CTGCGGTGAT GCGCTGCGAG GAGGCTTGTG AGGCCTACTT GGTAGGGCTC
102481 TTTGAGGACA CAAACCTTTG CGCCATCCAT GCTAAGCGAG TGACTATTAT GCCCAAAGAC
102541 ATCCAGCTCG CTCGCCGCAT TCGCGGAGAA AGAGCGTAAA TGTAAGTCA CTTTTTCATC
102601 AGTCTTAAAA CCCAAAGGCT CTTTTAGAG CCACCCACTT ATTCCAACGA AAGTAGCTGT
102661 GATAATTTTT TGTTGTCTTA ACAGAACAAA TTTCTAAGGA CCCCCCGGA AAGCATTAGA
102721 CTATGGTCTT AAAGTTGATT AACAGAAATA ACGGTTTGGT CAGTCTTGCA GTGTAGGTTA
102781 TTTCTGACCT TATTAAGGTG CTATTTGGAG AGAAGCTGTG TAAGTCCACT ATCATTCAGG
102841 CCTCTAGCTT GCTATGATTA GCATTTGTTT AAACAACCTT GTAAGAGTAA GGGAAAAATC
102901 TGGTAAGTAG TTAAGTGGCG CTTACTAGGC ATTTTGTCAA AGCTTTGAAA AGATTAGAAA
102961 ATTGTGTCTT GCGAGTTCCA GTGTCTTCTT CAAAATGCTT AGGAAGATTT TCTCAGCTCA
103021 ATACATAGTC CCCTAGGTTT TCTCATATAT TATATATATA TATATATATA TATATATGT
103081 TAAATTCATT TGGCTGTTAA CATTAACCTG AAATTTATTC TGGTGCAAAA TGTGAGGCAG
103141 GGATCTAACT GGCTCTCATT TTATCCATAG CTAGCTACCC ACTTTAAATC TGTAGTCTG
103201 TCGACCAAGC ATAATTTAAT CCCTTATATA TGAATTTTGA TATGTGTGGC TTTGCTTGTA
103261 AATAGTCTAT CTGGTTGCAT TGCTTTGTCT CCTCTAGGAC TATGCACCAT GACATGCCAC
103321 ATTCTTTTTT TCAGTACTTC TTGCCTGTAG TTATTAAAAT CTAGAATTTA CAAGTTTAA
103381 CCATTTTCTT TCTGTTGATC TTGCTTTTCG GTTTTGGAGG TTGGGGATTG AGTACTGGAA
103441 GAAAATTTAG AGGGATGGGA ATACTGTACG CAAACAAAAG TAATATTTAC TTTAAAATTT
103501 TTATATTTTG TATTTTTTTA TCATATAGCT TTTACATCAC ATTTTACAGA CTAACTTTAG

Figure 1 (Page 32 of 73)

```

103561 AACACCACA GAATGTCCAA CATTAAAACT ACTAATTCCA AAGACCTTGC CTCACATTCT
103621 TTTTACAAT AAATATTTTT TACACCTAAC ATTCTTTCTT GGCCTACATC TAGAATGTAA
103681 ACTGATGTAC CATACTAAAA TCGCCTGACC AACTGTCAAC AACACAAAT CACACACACA
103741 AAAGATTAAA TTTGAATTGC ATCGTTTACT TAAATTCATT TGTGTTCCAG CTTTTAATAA
103801 GGCAGTTTTT GGTTTATAAA GTAATATTTG CATTTTAAAA ATTATGAAAA TGAATATGTC
103861 AGTTTGTTTT ATGATTCGTT TTTCTTGACT CTTATACAAG CGACTCTAAC TGGCATAGAC
103921 ATTTGTTATC CACAGACAGT ATAGATATGT TAGAGATGCC AATGGACTTG GTCTATGCCA
103981 AGGTGACTAC TCACAAGCTC TGGGCCCAGC TGAAGGTCAA GTATTTTTTT TCCAGTTATA
104041 GATGTGCTGG ATCTGATGTA TAGCGCTTGA CTTTTTATAT TTTCTTTATC TGTAGGAAAC
104101 AAATGTGTTG GAGGTACTGG GTCTGACGAA TAGCATAAAA GAATAAAGTT ACATTACTGT
104161 CTGAGGATCA GATGGACAGG GGGTGGTAGC TCAGTCCAGC TATTTTCCAC TCCCTCACTT
104221 ACATTCTTTG CCCCCTCCTC AACAGAACAA GGATTCTGCT GTAACCTTC ATTGACGTT
104281 GATTTTTAAA AATTAACGAA TGGATGAAAT TCTCATTTGT GAAAGAAAT TTTATGAGCA
104341 TTTTGTATTT GTGAGTAGTG CAAACATTTT AATATTATAT TAAGAATCTA TTGTTTTGTA
104401 TTAGAGGAGT AATTAAGGAG AGATTGGAGA CAAAAAGGGG GTGTTGTTTG CAGAATATAC
104461 CATCCAAAAA TAGACCACTG TGGGATCAGG ATTCTTTTGA GCTAAAGGCA CTTCAAAAAC
104521 AGCATTCAAG AAGGGAATTC TTCTAAACTT TTCTTTCTGA AAACAGGAGA TAAAAGTTCC
104581 AATGTGAAAA ATGCTCTGCT TGTACCAGGT GAAAAGACAT ATTCTTCAGC CCAGAGGCAT
104641 AGATGAGATA ATTCTGCACA AACACAGCAG GGAGTCATAG CCGAGAGACT TCTATACACA
104701 AACAAACCTT GTTAAAATAA TCATATATTC CTTTAATCTC CTCATATGGT TTACTTTCCC
104761 ACAATTGCCCT CTCTTTAACT TAATGTGAAA GCATTTAGCT TTTGCCATTT CTTTGGGGCT
104821 TCACTTTTTT ATGAGGGTTC TCCTGTCCCA TAAAATTTAC ATTAAATACA TTTGTATGCT
104881 TTCATTCTGC TAATCTGTTT TATGGCAAAT GAATTATCAG GTCCAGCTGG AGACCCTAAC
104941 AGAGTAGAGG TAAAATTTTG CCTCCCTACA AGATAGAGAT TGTGTGCATT AAATGTTGTT
105001 TGTTCCCAGT TGTTCAAGTT GTCAGGCCTC TGAGCCGAAG CTAAGCCATC ATATCCCCTG
105061 TGAAGTGCAC GTATGCCTCT AGATGGCCTG AAGTAACTGA AGAAACACAA AAGAAGTGAA
105121 AATGCCCTGT TCCTGCCTTA ACTGATGACA TTACCTTGTG AAATTCCTTC TCCTGGCTCA
105181 TCCTGACTCA AAAGCTCCCC CACTGAGCAC CTTGTGACCC CCACCCCTGC CAGCCAGAGA
105241 ACAACCCCTT TTGACTGTAA TTTTCCACTA TCTACCCAAA TCTTATAAAA AGACCCACC
105301 CCATCTCCCT TCGCTGACTC TTTTCCGACT CAGCCCGCCT GCACCCAGGT AGAATAAACA
105361 GCCTTGTTGC TCACACAAAC CCTGTTTGAT GGTCTCTTCA CACGACGCG CCTGAAACAG
105421 TTTAACAGGG TTTTTCCTGC CCAGTCACAA CAAAGTGATG TTATGCTGCA GGCTGAAGTT
105481 TACAGCTAAT GCTGTTGAAG TCTAAAATCA GTTTTGGTTT GTTAGATTTG GGTGAGATGG
105541 CTAAGATTCT CAGAGAAAAG AGTCAAGTTT GGGGTGCATT TTTCAGACTT AAAAATTTAG
105601 CAGTAGCCCT TGCAGTTTTT CCAATAGAAG TGATTTAAGA ATGTTTTCAG GAAATTTAAA
105661 ACAACAGTGA GAAGCGTGTA TGGAGAGTTG AACTACACTC CAGACTTGGC TATAGGAAAG
105721 CACGAATGCT GCTATTGTAT TGCACCTTGG AAAAGAGAAC AAAGGAATAT TTTCCGACAA
105781 TTTTAACATG TCACATATGA AAAGCTAAAC GGAATCTGTC AACACCTTGT ACGTTATTAC
105841 AGGCTGTGAT TTTAAAAAAA CAATCCTTAC TAATACATAC ATAGTTGCTG CTAGCAATAT
105901 AGTGTGGGGA GTAAAAACAC GAAAATGAGA GTTCAGGACA ATATCCCAAC TCTGAGCAGA
105961 TTTTTTTAAG TAGTAACATC TAAAATTAAA CCATATTATG TAATATTTAT TTCTTTTCCA
106021 CAGTCTCTTC TCATGCCTCG TTCACATTAG CTAATTAAAA GTCCCCTGAG TATCATCATA
106081 ACCCGATTTA CAGATGAAGG CACGGTTGCA ATGAGCTATC ACCCTCTTCT GAATGAGACA
106141 GTACAGTGTG AAGGATAGCA AAACCTCCACT CCCATCCTCT TAGGGCTCTG GCTGGACCAG
106201 CAAATTAAAT TAATGTAAAA TGGATTAAAC GGAGAAAGGT ATATGCATTT ATTTAACACA
106261 GGTTTTACGT GACACAGGTG CTCTCATAAG GTAATGAAAG CCCAAAAAAA GCAGTTAGCT
106321 ACTTATATAA TGAATTGGAC AATTAGTAAA ATGTAAAAAT GCGCTAAAGC AAAGGGATTT
106381 AGGCTAGAAT ATATAACTGT GTAGAGAAGC GCCCAGCAAG GGCTAGTGCA AGGTTGTAC
106441 AGAATCTCTC TGGCCTCAGC CTCCTATCCT TGAGAAGAAT GTTGCTTTTT TTAAGTACA
106501 GTGAGAACAT CTTTCATATG AGAATTTTAC CTACTGCTTC TAAGAAACAG GTCAGCTTTC
106561 AAGAAACAT AAGGCCAGAG TGATCTTTTC ACGCCTGCTC TTTTAAGTAC CTTTGAATAG
106621 TCAATATGTC TTCAAGCACT TGAAAGACTT AAAAAGTTTA CCACTCCGGC ATATTAGTGA
106681 AAGCCCTTAA TATAAGCCCT TATTTAAAT CTGAGTCGAG GGTATAAAT CAGATTCAAA
106741 TAGTAGTGTC GTAAACGGGA GGGAAAACT AAAGGGATTA AAAAGTGAAA CTATTGTGTT

```

Figure 1 (Page 33 of 73)

106801 CTCCCTCGCA GTCCTTAGGT CACTGCCCCCT CGAGGGGCGG AGCAAAAAGT GAGGCAGCAA
106861 CGCCTCCTTA TCCTCGCTCC CGCTTTCAGT TCTCAATAAG GTCCGATGTT CGTGTATAAA
106921 TGCTCGTGGC TTGCTTTCTT TTCGCGTACC TGGTTTTTGT TGTCAGCTGG TTAGACATGT
106981 CTGGTCGCGG CAAAGGCGGT AAAGGTTTGG GTAAGGGAGG TGCCAAGCGT CACCGAAAAG
107041 TGCTGCGGGA TAACATCCAA GGCATCACCA AACCGGCCAT TCGGCGCCTT GCTAGGCGTG
107101 GTGGGGTTAA GCGAATTTCC GGTTTGATTT ATGAGGAGAC TCGTGGCGTT CTCAAGGTGT
107161 TTCTGGAGAA CGTGATCCGG GACGCCGTGA CCTACACGGA GCACGCCAAG CGCAAGACTG
107221 TCACTGCCAT GGATGTGGTT TACGCGCTCA AGCGTCAAGG ACGCACTCTG TACGGCTTCG
107281 GCGGTTAATC TTTTCGTCAG TTTTCTTCCA ATGGCCCTTT TCAGGGCCGC CCACTCCCTC
107341 TCAGAAAGAG CTGTGATTGT ATTCTTTCGG ATGGTAACAT CTCAATGGCT TTACTCGGCT
107401 ATTCTGCCTA GTATGTAGAA CTATTATAAA CCAGTTGGGA GAGACCAGGT TGTTTGGTCT
107461 GAGTGGCTGC TAAAGCAGAA ATCAGCTAAG TAAACGAGGT CTCCGAGATA AGTGAGCTAT
107521 AAAC TTCAAT GCTATAGTTT TGACATGTCA AGCAACTTAA CGTGCAGCGC GAGTCCGATA
107581 AATGAGTAGC TCAGCTTTTT AGTTTTTAAA ACGAGTTGTG CGTTATTTGT ACGAGAGCCT
107641 AAGATGCTAG CTGCCTGGAA CTGAGTAGGT GGATTAAAAAT GGGTGTGAGG TCTGTTTTCC
107701 CAGGCGTATC TGACTTAACG TCAGCAAAAAG CTGTACTTTT AGCTTCCCTG GTAACACCTG
107761 CCGTCCCTAA CCGCCCCCTG CCGGTAGCGC CAGAAGCCTT TACTTCCATT TCTAGTTGAG
107821 CTTGGCGTCC TGCTGAGTGA CGTCACCTCC CCCTTCTCTG GAGTAGGACT GCGGTTAAAA
107881 GCTGCTTTGC TATTTTCAGT CCTCAGGCTG GAGGCTCCCC TAAGCAGGCT GCCTACGCAG
107941 TTCGTAAATT CCCACTTAGT AGACTAAGGG AGTCTGTTTT ATAAATAAGG ACTCAAATTT
108001 CTTCTGACTC CGAGGTCCGT GGCAGCAGCT ATAAGATGGA AGCCCCCTCT GATGTAAGAT
108061 TCTCAGATGA CTTGCATCTT CACTGTACCT GTCAACCCAA TAGTCTTCTA TTCCTGCCTT
108121 AAATTGTAAA TTCCAAAAC TATTTAATTG TGAAAAGTTT AAAGTGTACG ACCTAGGAAG
108181 TGTCAAAGTT AGGTGACCAG ATTTT TAGAA GTCAGCCAAA TATTGAGCAT CTTTGATTTA
108241 GTAACAAATA TATTGATGGC TACTTCAGCA AAAAAAATCA ACTTTGTTTT CTGGTTACTT
108301 TGCTAACAAG CTTCTCCTGA CAGGAGGATA TAGTGAATAG GCAGTTGAAT AAGTGAGTTC
108361 GGGTGAGAGG TCTGAGCTGG AGATAAAAAAT GTGTGAGTCA TCAGCAGATA AATAAATGCT
108421 GAGACCAGAT GAGATGGCTA AAAACTGAAA CATAATGTAG TGCAGCATTG TTTGTAATAG
108481 TAAATGAGTG GCAACTGTAA AGTTTTTCATC AGAAAGGACT AGAGTGATCT ATACATCCAT
108541 AAAATAGAGT ATTTCTCTAC ACAGCCCTAC TAAAGAAATGA GAAAGCTGTA CTCCACTACA
108601 TACTCTGGTG TACTCTGGCT CAGTTCTTGG ACTCCTCTTT TCTTGCTAA CTCAACTGGC
108661 CTCACCACTT ACATGCTCTG TGCTCTGTCA AATAGTTTGT TCAACAGAAC ACCACGGCCT
108721 AGCTGTAAGT GCCACGTTAA CTTCTAGCAA TGCCAAAGCC TGTGATAGTG GCAGCTTCGG
108781 GCTGTTTCTC ATTCGCGGGA TGCCTAACCA CCTCTCCAAA TTCTATCAGT TTGCTTCCAC
108841 CCACTTCAAG CTTCAGAACG AAACATAGAG CTTAAGAAAT ATAGGCCCGG CAAGGTGGCT
108901 CACGCCTGTA ATCCCGGCAC TTTGGAAAGC TGAGCCTGGT GGATCACCTG GGCTCAGGGG
108961 TTCGAGACCA GCCTGGCCAA TATTGTGAAA CCCCCTCTCT ACTAAAAAA AAAAAAAAT
109021 TAGCTGGGCA TGGTTGCGGG CGACTGTAAT CCAAGCTACT CGGGAGGGTG AGACAGGAGA
109081 ATAGCTTGAA CTCGGGAGGC AGAAGTTGCA GTGAGTTGAG ATCGCGCTAT TACACTTAGG
109141 CCTGGGAGAC AAGAGTGAAA CTGTGTCTCT AAATAAGTGT TTGCAATTAT AAACCATCTC
109201 CCTGACCTTA AATCTCTAGA CTCATATACA ACTGCATATT TGATGTATCT AATTGAATAA
109261 TGGGCATCTC GAACTTGTC AAAATATGTT TATACGTAAA CACCAAGTCT GTTCTTCCCTC
109321 TGATATTTGT CATGTCAATC AATAGAATC CATTTCTCAA GCAGCTTGGG CCAGGAATTG
109381 TGCAATATTG TTTGTCTCTA GCTTCTTACA ACTTTACCC AATGCAGTCA GCTCTGTTGA
109441 AAATCAATCA GAATACCTTT CATTGTTTTT TTTGCTGCTT CTCTAGGAGC AAGCTGCCAT
109501 GGCGGTTTGT CTGAATGACC ACAGTGACCC CAAACTGGTC TTTGTTTTTCA CTTTTAATCC
109561 CCGTGTCTA CAGTTTTTTC TCTATCCAGC ATCAACAGTG ATCCTTTTTTG AAGGTATTAT
109621 GTCCACTGTC TGCTGAAAAG ATTCCACTGG CTTTCCATCA CCTTCATAAT AAAAACCAGC
109681 ATCCTTATCA TAGCCTACAA GTAAGATGAC CAACCATTAC AGTTTGCTTG ACTCTCAGGG
109741 GTTTCTCAGG GTGTAAGACT TACAGTGCTG AAACCTAGAA AGTTCCAAGC AAACCTAGGAT
109801 GAGCTGCTCA ACCTACTAGA TCTGTACTCT GGCTACCCTC TGACCTCAT CTCTTCGCAG
109861 TTCTTTCTCT TCACTGACCT TGCTGTTTCT GGAATGGACC AAGCATTTCC AGCATCAGCA
109921 CCTTTATATC TATTCTTTCT CCCTAGAAGG GTCTTGTCTT GGATATCTGA ATGGCTCTAG
109981 ATCTCATTTT ATTCAAGCCT CTCCTCAAAT ACCAACCTTA CGAAAGAGAC CTCCCATAT

Figure 1 (Page 34 of 73)

110041	CATCCCTTGT	AAAATAAGCT	TTTCTGCTCA	TTTAGCATAT	ATATATATAG	TTGACTATCC
110101	TCAATAGCAT	ATATATATAA	CATTTCCCCA	CCTAGAAATTA	TATATGTAAAT	AATATATTTA
110161	ACAAAAAATA	CATATAACTA	GATATATTTT	ATTTTGTGTT	TGTTCTCTCT	CCCCCAACTG
110221	GAATATATTT	TTTGAAGGTA	GGGACTTTGT	TTTGTCCCAG	AAGTATCCCT	AGCACCTTGA
110281	ACAGGGCTGA	CGTTTAAACAG	GTAGTTTATG	GAGGTTTGT	GAATGAAAGG	ATGTGTGAAT
110341	TTTCTATGTA	AGTCTCCAGG	CTCTCCACTA	AGCCCACCAG	AATGCTAACA	CAATCAATTC
110401	CCCATCTCAT	TCCTTGACCT	GCCACTGCCT	GAAGCAATCA	GCGTGCAGTT	TCTCTTTAGA
110461	AAATCTGGGG	GATAGTCTAG	GGGTGCAAA	TTAAGCAACA	TTATCTTTGT	TCTGAACAAG
110521	GACTGCATGA	GTGTTAGGAC	TGAAGAAGGC	CCAAGGTGGT	GGTGGGTATG	CCTAAGATGA
110581	GTATGACATA	TCAGCAATGC	TATGAACATA	GCAATGCTAT	GAAAGGCCAG	GCAAAACGTA
110641	ACAGGAGCTA	GTCGTGGCTT	ATTGTTACAA	CGACTATACC	TCCCATATGG	GTAATCGATA
110701	TCCACACACC	CCTCTACATT	GACTCTGGAA	TTCAGGAAAG	GGAATTAAAA	TTTTCTAACT
110761	TATGTACCCC	AATGATTTCA	ACAATCTCTG	GCATATGAGA	TCAATAAATA	TCTTTAAAT
110821	ACCAACTAAG	AAAGACATAA	AATGACCCAC	CCTCCATACC	AGGCTCATTT	TTGCTCCTCT
110881	GATTCTTGAA	ACTATCCAGA	ATGCAGCTAT	GAATTCTCTC	CATTGTGAGT	TTTAAATTAA
110941	GCCAAGCTGG	GTAAGTGTGT	AATTCTCTCA	GAAATCCTGG	ATGAAACTG	TCAGGTGGAA
111001	AACAGGACCT	CAAAATAAAG	AGACATCCAT	CACTGAAGCT	AACATCGTGA	GGCTGAAATC
111061	AGTCTTATAA	CAATGGTACC	AAAAAGAGCA	CAATGAGAGG	CATTTGTGAA	TATTTACTCA
111121	GATGAGAGTA	AGATATTTCC	CTATCAGCTA	ACCTGAAGTT	CACATCCCTT	TTCCAGCTGA
111181	GTTCTGAAGC	TAGATGTACT	TAAGTGAAC	ACATAACTGC	ATCAGGAACA	TCCTTTAAAA
111241	CTATGGCTAC	CATGGCTTGA	CTGGACAAAC	CCCAGGCTTC	CAGGTTTAGC	ACAGGTGGCC
111301	CTTCACAGAC	CAACATTGCC	TATGCTACCA	ACCTCATGTC	CTACCACCTT	GCTTGCATCA
111361	TTTCTCTCTC	TGCATATATA	AAAATATATG	TGTATGTATA	TAATCAGCTT	TATTGATATT
111421	TAATGTACCA	CAAAATTTGC	CCACTTTAGG	TACAGTTCAA	TGAATTTTAC	CGTGTTTTCT
111481	TAGTTGTACA	ACCATCATCA	CAATTTAATT	TCGGAATATT	TCTATCACCC	AAATTTCCAT
111541	TTCTGCGTAA	AGGGGGAAAA	AAAAAGGTTA	ACTGCTGAAG	GCCGCGGTAA	CACTGAAAAA
111601	GGTGCCTTTT	CTCTCTAAAA	CAGATTTTAA	TCTCCCCTGA	ATTTAGTGTC	CTGGGTATTG
111661	CAGGAGTCTG	AATAGGGTTT	CAATTTTCAG	GGTCTTTTAA	ATAGAGTAAA	ACTGTATTGG
111721	TGGCGATAAA	TTTAGTATTG	CTCTCAGTAC	ATGATTGAGG	GATACTTAAA	TGTCTCTGTG
111781	ATTTTATTTT	ATAATCGCTA	AAAGATGGTT	TTTTTTTTTC	CTAAAACAGG	GTTTTTGTGT
111841	TTTCTCAATA	AGCTTCTTAG	CTTCCCCTCC	GGCTCCCCTG	CTTGCCTCAG	GAAATATTAG
111901	CTCATCAGTT	CTGATTGGTT	GACAGCTACG	AATGGCCCTC	ATTGATTGGG	CAGCGCTTCT
111961	TTGTCCCCTG	GAAACTAATA	CAAATTTTTA	ACACTACTTT	TTTTCCACTC	TTTCTTCAGA
112021	GTTGGAATAT	CGTTGCTCCC	CTACCCATAT	GTAGTGAGTG	GAGGGCAAAC	TTGGAGTTCC
112081	CCTAATCTTT	CCTTTTATAG	ATGTCAGCTC	AGTATCATTC	ATCTTAATTA	CACATTGAGC
112141	TTCTTGACTT	AATGGATACA	GCTCTCTTTT	TGTTTAGTTG	GGCGGCCCTG	AAAAGGGCCT
112201	TTGGTTCAGA	AATGCAAGCT	GTGGAGAAAT	CAGCAACCTT	AACCGCCAAA	GCCATAAAGG
112261	GTGCGTCCCT	GGCGCTTAAG	CGCGTAGACC	ACGTCCATGG	CAGTGACTGT	CTTGCGCTTG
112321	GCGTGCTCCG	TATAGGTGAC	AGCGTCACGG	ATCACGTTCT	CCAAAAACAC	CTTGAGCACC
112381	CCGCGAGTCT	CCTCGTAGAT	CAGACCAGAG	ATCCGCTTCA	CACCGCCACG	CCGGGCCAGA
112441	CGCCGGATGG	CCGGCTTGGT	GATGCCCTGG	ATGTTGTAC	GCAACACCTT	GCGGTGGCGC
112501	TTGGCACCCC	CCTTACCCAA	ACCCTTCCCC	CCCTTACCAC	GTCCAGACAT	GACTTCCCAA
112561	GAAGTGAACC	AAGAGCAAGT	GAGAGAATAG	GAAACCGATC	TTTATATATC	TACGTTACCC
112621	CTGCCCCCAC	CTCCAGCGGA	CACTGAGACT	GAAAAGCGCG	CAGGCGGGAA	ATGTGACGCC
112681	TACAGTCCGC	TCCTTTAACC	CCTCCTCCAA	GCCCCAGGAA	ATGGCGGGAG	CACGATTGGG
112741	GGGAGGGTGG	GGAGATGAGG	GTGGGACCAA	GCAGGCTTGA	CCAATGGCCT	TTATTTTCTT
112801	AACAGAGCTA	CAGGCTTTGA	GGAACCTGGT	TAAGAATTAA	ATGTAAACCC	ATTCTGACTC
112861	CAGAATTATT	TTAAGTCGAA	CTTTTTTTTT	AACCGAATCT	CTCTGTGCGC	CAGACTGGAG
112921	TACATTAGAG	CCATCTCGAT	TCAGTGAAC	CTCTGCCTCT	CAGGTTCAAG	TGTTTCTCCT
112981	GCCTCAGCCT	TCAGAGTGTA	GCTGGGATTA	CAAGCGCTCG	CCGTGCGGCC	CGGCGTGTTC
113041	TTGTATTTTT	CGTAGAGACG	GGATTCGGCC	ATGTTGGCCA	GGCTGATCCC	GAACTCCTGA
113101	TTTCTGGTAA	TCCGCCCCGC	TCAGCCTCTC	AAAGTGCTTG	AATTACAGGC	GTGAGTCACC
113161	GCGACCGGCC	GAAATCGATT	GGTTTTGAAG	CCTTCAGTAG	CATTAAAACG	AAAAGTGCTC
113221	CCAATGCATT	CCCTTTTGTG	TTAAATTGGT	TTCTTACAGC	TACTTTACTT	GAAAAGGTGG

Figure 1 (Page 35 of 73)

```

113281 TGGCTCTGAA AAGAGCCTTT GCTTGGACCG TCAGAGAGAC CACAGTAATC ACGCCCTCTC
113341 TCCGCGGATG CGGCGGGCGA GCTGGATGTC CTTGGGCATG ATAGTGACGC GCTTGGCGTG
113401 GATGGCGCAC AGGTTAGTGT CCTCAAATAG CCCTACCAAG TAGGCCTCGC ACGCCTCCTG
113461 CAGAGCCATC ACAGCGGAGC TCTGGAAACG CAGGTCTGTT TTAAAGTCCT GCGCAATCTC
113521 GCGCACCAGG CGCTGGAAAG GTAGTTTACG AATAAGCAGT TCAGTGGACT TCTGATAACG
113581 GCGGATCTCG CGCAGAGCCA CGGTGCCCCG CCGGTAGCGG TGGGGCTTTT TCACGCCGCC
113641 GGTGGCCGGA GCGCTTTTGC GGGCTGCCTT AGTGGCCAAAC TGTTTGCCTG GCGCCTTGCC
113701 ACCAGTAGAC TTCCGAGCAG TTTGCTTAGT GCGAGCCATG ACGGAAAAAC AGCACAGCGG
113761 AACACCCAAC ACTAGCGCAA ATACGCCCAT GAGCTGCTCT ATTTATAGTG TGTAAGTGC
113821 AGTGATTGGA TGATAGAAGA CGCTAAATAT GACGTTACAC ACTCTGATTG GTCTATCTTT
113881 AAGCCAGCAA CAATCGTGCA GTTTCACCGG CTACTATATT CTATTCCAAC TCTACAGATG
113941 ATTATTTAAG TGGTATTTTA TTTACTACTAT TATTTTATTT TACTTTTGCT TTGTTCCCCA
114001 AGCTGGTCTT AAAGTGGGC TCAAAGGATC TTCCCGCCTC AGCATCCAGA GTAGCTGGGA
114061 TTACAGGGGA GCCCCACTGC GCCGGCTTGG ACTTTAATTT TTAAACTTG TCCTCTTCTA
114121 CATCTGGTTT TCATAACCTG AAGGCTGTGT TTATTTTCCA TAAAACAAGG CATTGATTCC
114181 AAAGGTATTA TAATTCCCCA ATTCGCTATA ACCTTCAGCT CTTTAGGAAA AAAAAAAAAA
114241 AAAAAAAAAA GAGGGAATAC TGCTCACCTC CTCTCCGGAA ATGTACCCTT TACGGGAATT
114301 TCTGAAACCT TTCACAAGAA TTGGATTCTT TTGTAATGCT TTAATTGACT TAGGAGTGT
114361 ATTGAAATCT ACAAAGCATC TCAAACATAG TAGGATTACA CTATTACTCA GAAACATTTT
114421 CTATGAGACG TCTTCTCTTT GATTATGCTC TTTGAATCCT AAACCTGCAG CGTTCCTGCAG
114481 CTTTTGTTTT CTAAAGCCTA GGTGTACTCT GCCAGTCACA AAATGGCGTT TCTCCAGCAC
114541 TGCCGCCAGG TACCACCAGC TGGGAGTTGT TCCTCTTGCG GAGCAGGAGG TGGACTTGGC
114601 CCAAGAGAAA CTGGATAGTG GTTCGCAAGG AACATAATTT AGCATTGCCA AGAGCTAATG
114661 CAATCATTTT GAAAATCTCA AAACACTGAA AAGTGGATTG TGACCTTTTT AAATTCACAA
114721 GAGACAGGCC ACATTCTATC TTTTGATTGG TTTAGGCTAT TTTCTTGAAC AGCCATTTAG
114781 AAAGCAGATC TATCATCTT CATTTCATG GAGCGTTCCC ATTTTATTTG AAACCAGTTT
114841 AACCCTAATG AAAAAAGGGA GGCAGAACCC ATTATTTAAA GTGGAACTC CTGAATCAGA
114901 TAATTAGGAG TATTTCTTTT TCAAAAGTTG CGTTTTTTCA GATACCTCGC TTATTACACT
114961 AAGAAAGGTT TATATCTTTC ACAAAAGGTT TACTTACAAA AATCTTCCAA TTTTGTATAC
115021 CTGTGTTTCA TAACCTGACTA CCGCTCAAAC CAAGATGTAG AGTTTCCAAC CGTTATTTTC
115081 CAAATTTTFA GAAATTACGT GAAATATTTG AATGCATGCC TTCTCAATAA AATGGGACGT
115141 AGGAAGCACT GGTGCAGAAAG ATGGGTACAA TACTTATCTG GGACCACTCC ATTATTTGGT
115201 TGGCACGTTG TTTGAACAAA AAGGGGAAAA GCTCAGGTTA CTTAGCATGG TTCGGACTTA
115261 TTTGAAAACCT ACCACAGCAG GAGCGGAAAT AAGACCGCAT TACCTCACTC TCTGCTGTGC
115321 TGTGCTAGGG GGTATCCAG AATAGGATTG TAGAAGTGGA TGTCGATTTA ATAGTTTTTT
115381 ATTCTCCCAT TAGCTGAGTC TCTGATTGGC AATGTGAGAT CGTTTTAGCT TATTGATACT
115441 TTGAAATGCA CTTAACAGCC ACAAACAAGT TAAAGGGTTG TTACCATAAA ATCTTATCCC
115501 CAGGGTGTGC TTGCATTTAT CACCCGTGTT TGCTTTCACA CTAAGTGGAC TTAACCTCCC
115561 AGCAGAAATG CTGTCAGGGA ACCGGTTTCG TGGACCCAGC ATTTAACGCC TTTCGCAGGC
115621 TTGTGAGGCC CATAAATATT GTTTGAATAA AAGAATGAGT TGACCATGTC ATGGTGCCTG
115681 GATTGCGTGT GCTGACATGG AACACAGGTT GTAAACCTTA ATACCAATTT GGGGCATGTT
115741 GTATGGATGA AAAGGGCATT GGAAATTCCT GAAGTGCATC CCACATTGGA CTGTGGAAT
115801 AAGTTGCAAG TGCAGAAACG TTTCCACACT TGCAGTTTGA GTATTAATTG CAGCGTTTGT
115861 GAATTCGGT GTTGTCTACG ATTCATCTT GTTTGACGTG AAAGGTATTC GCGAGACACA
115921 TCGCTCTAAA ACATTGCCAG AAAATGTAAT AGAGTTGATG ACAACTGGCC CTAACACGGC
115981 CTAAACCTCG CACTTTTCTC TCCCTCCGCA ACTATTCAAA AACTGTATT TTACATTTCT
116041 TGCAAATTA AAACCTAACAT CTCTGGCAAC GGACCTCTAA AAATTTCTAA TAAACTCCT
116101 CGGATGCTTG TGGCACTGCA TTTGTAAACC GCCCCCTCTC AACCTACTCC CTAATAAAGA
116161 GCTGCTTTTT GAGAGAGAAG CGGTACCCTC TGATGTTACT GGGCGGCAGT CTGCCTACAA
116221 TTTCTTTCAC AATGAGGCAA CCAGAGCGGC TTTTCTGTG TGTTTGCCTG CGTTGAGGGG
116281 AGCAGGACCA TAGGCCCTAG AGGCCCCCAG CTGCCTTCTG AGACTGGGCG AAACCTCGG
116341 CAGCGCGCAG GGGGCGCTAG GCGCGGAGG GCGGCACTG ACGGGACCA ATCACGGCGC
116401 AGTCCCACCC TATAAATAGG CTGCGTTGGG GCCTTTTTTT CGCATCCTGC TTCGTCAGGT
116461 TTATACCACT TTATTTGGTG TGCTGTGTTA GTCACCATGT CTGAAACAGT GCCTCCCGCC

```

Figure 1 (Page 36 of 73)

116521 CCCGCCGCTT CTGCTGCTCC TGAGAAACCT TTAGCTGGCA AGAAGGCAAA GAAACCTGCT
116581 AAGGCTGCAG CAGCCTCCAA GAAAAAACCC GCTGGCCCTT CCGTGTCTAGA GCTGATCGTG
116641 CAGGCTGCTT CCTCCTCTAA GGAGCGTGGT GGTGTGTCTG TGGCAGCTCT TAAAAAGGCG
116701 CTGGCGGCCG CAGGCTACGA CGTGGAGAAG AACAAACAGCC GCATTAAGCT GGGCATTAAAG
116761 AGCCTGGTAA GCAAGGGAAC GTTGGTGCAAG ACAAAAGGTA CCGGAGCCTC GGGTTCCTTC
116821 AAGCTCAACA AGAAGGCGTC CTCCGTGGAA ACCAAGCCCCG GCGCCTCAAA GGTGGCTACA
116881 AAACTAAGG CAACGGGTGC ATCTAAAAAG CTCAAAAAGG CCACGGGGGC TAGCAAAAAG
116941 AGCGTCAAGA CTCCGAAAAA GGCTAAAAAG CCTGCGGCAA CAAGGAAATC CTCCAAGAAT
117001 CCAAAAAAAC CCAAAACTGT AAAGCCCAAG AAAGTAGCTA AAAGCCCTGC TAAAGCTAAG
117061 GCTGTAAAAC CCAAGGCGGC CAAGGCTAGG GTGACGAAGC CAAAGACTGC CAAACCCAAG
117121 AAAGCGGCAC CCAAGAAAAA GTAAATTCAG TTAGAAGTTT CTCTAGTAA CCCAACGGCT
117181 CTTTTAAGAG CACCTACGC ATTTTCAGGAA AAGAGCTGTA GTACACAGAT GAAATCCCCC
117241 AAGCAAATGC AACACGCCCT CAATTATATT AGAATCACTT GGAGAGTCGA TAGAACTTTA
117301 ACATAGCCTC ATCTAGTAAG AATTTACTAC TCAATCTATC AAAGATAGCA AGGTGAATTC
117361 AAATGCACCG AGTTAAAATC GAGTTTTTAAA GTCACCTGGG TTTCGGTAGC CGGAAGTCCC
117421 GCGTCTCACG ACTCCAAGCT AATTAGTCAT AACCGTATTG AACCAAGGTT GAAGCCCAGT
117481 CCCAGGCTTG AGGCTTTTTA TTATACAAGG TTAAAGTGGG GATATTGCGT TTTGGGGTCA
117541 ATATTGCTAA AGTAGCATTT TCCGAAATTG GGTGGTCCTA AGAAATGCTT CTGGGATAGT
117601 TGGCAAAATA TATGGCTTAA CCACGCCCTC TCCACAGGAG TGGCTAGCGA GCTGTCTGTC
117661 CTTGGGAAGG ACGGTGACCC TGCTGGCGTG GCTGGCGCCC ACGTTGCGGT CCTCTGAAAG
117721 CCCC GCCAGG TAGGCCTAGC TCGCTTGCTT TCTGCAGCGC CATCATGACA AAGCTTTGAA
117781 ACGCAAAATG CTTTCTTTGT GCAGCGCCTT ACCATGGGTG CACTTACGGG CTGTCGACTT
117841 GGTTTAGGCC CTTGTCAGGA CAAAGGAGCT TAGTTTGTGT GAGTTTGTAGA GCTGCAACCC
117901 AAAATCCCTT GCTCGGTTTC TCTGTTTTTA GAAACGGAAG CGCCCTGATT GGATATTTGA
117961 AAATTACTGT GCTTAACTGG ATCGTGTTC ATCAGTCGTG CAGGATTTTC AACCTGGTG
118021 GAGCCACAC ATTCAAACT GAAGATCCTT TTCTCAGAAC TGCCCCTTTA AGCTTTTGCA
118081 ATTTTAATTC TGGGGGTCAG ATTTTAATAA TTGGACTTTT TTGTTTACAT CTGACAAAGAG
118141 TATATGATGA GCCAAGTTTA CTCACTTTTA CTTAGTGCAG TTCAATTCTA AAAGTTTATT
118201 TTTGCGTGTG TGCATATGAG TTAATAATCA GTTGATTTTT TCAAACGGTC TTTTTTCAAT
118261 TGTTTTGCTT AGCTCCTTCC ATCGTCTAAA GTCAGGGATA CAGGCACATC ACATCCCTGT
118321 TCCCCCTTCC TCAAACATAAT ATGTAGCTAC CTAGGTTTAT CCTTTAAAC AAAAATCTC
118381 ACCTATTTTT GTGAGAAATA TACATGTTTT TCTTTGAACT AAGTATTTTA CATACACCTA
118441 TCTATATACA TGCATACTTG TGGTTTTGTT TTTTTAAAAA AAAAAAAAAA AAAACACGTT
118501 ATCTTTTGAG ACTGGGTCTC AGTCTGTTGC CCAGACTGGA CTGCAGTGGC ATAATCACAG
118561 CACACTGTAA CCTCCAATC CTGGGCTCAG GCTATCCTGC AGCCTCAGCA TCCGGAGTAG
118621 CTGGGATTGC ATGCACGCAC CACCAAGCCG GGCTTTTTGT TTTTATTTTT TGTGGAGACA
118681 GTCACACCAT GTTGTCCAAG CTGGTCTAGA AATGGCCTCA AGTGATCATC GACCTCCCAA
118741 AGTGTGGGA TTACGGTCAC TGTGCCTGGC CTTGTATGCA TAATTGTTTT GTCTTTTGAT
118801 TAGGGTTATT AATTAAAAA ACAAGCCTG GACGCAGTGG CTCACATCTG TAATCCCAGC
118861 ACTTTAGGAA GCCAGATGGG CAGATTACTT GAGCTCAGGA GTTCAAGACC AGCCTGGGCA
118921 ACATGGTGAA ATCCCATCTT GAGAGGCTGG GGTGGGAAGA TGACTGGAAC CTGGGAGGTA
118981 ACTTATAGTC CCAGCTACTT GGGAGGCTGG GGTGGGAAGA TGACTGGAAC CTGGGAGGTA
119041 GAGGCTGCAG TGAGCAGAGA TCGTGCCACT GCACTCAAGC CTAGGTGACA GAATGAGACC
119101 CAGTCTCAAA ACAAAAATAA TAAAAATTTT TTACAACGAT GTTATATACA CTTCTGCATG
119161 TTGCTTTTCT CTTAACCAAA CTTTCTTAAA ACCCTGTCTT TATTGATAAG CATTGATGTT TCCAGTTACC
119221 TGGAATAGCA TAAGTTATTC ATCCATTTCT TATTGATAAG CATTGATGTT TCCAGTTACC
119281 ACTGCTGAAC ATGGTGCAAT TGAATAGAAT TCCAGGGCTG AGATTGCTAG GTTTTAGGTT
119341 GTATTTTATT ATTTTATTTA TTTATTTATT TATTTAGACA GAGTCTTACT CTGTCAACCA
119401 TGGTGGAGTA CAGTGCCATG ACCTCAGTTG CAACCTTTGC CTCCTGAGTT CAAGCGATTC
119461 TCATGCCTCT GGTCTCCCGA GTAGCTGGGA TTACAGGCAC CTGCCACCAG GCCTGGCTAA
119521 TTTTGTGATT TTAGGAGAG ATGGGGTTTC ACCATGTTGG CCAGACTGGT CTCAAACCTC
119581 TGGCCTCAAG TGATCTGGCC ACCTCGGCCT CCCGAAGTGC TGGGATTACA GGTGTGAGCC
119641 ATGGCGCCAG ACCTGGACTT TGTCTTCTGT TTCATCAGTC CTTCTGTTGG TTCAAGCACA
119701 GTATCACACT GAAGACTGAT GATTCTATAT AAATATGGTA AAGACTGTAC ACCCTAACTG

Figure 1 (Page 37 of 73)

119761	TTCTTATTTT	TTAATTTTAA	GGCAATTTTA	GATTCCAGCT	TTCCAAAGAA	TTGTGGAATG
119821	CTTAGAGCTA	GAGAAGCCTT	GGAAGTCATT	TAGTTTTTGT	TTTGTCTAGAG	AAAATTCTGT
119881	AGAGACTCTG	TCCTGCTCTC	ACTGAATACC	ATCCCATAGT	ACCCCCAAC	AGCTTTAAAG
119941	GGCAATAATA	CCTTATGGAC	AGTATGCTTT	TCCTCAAATA	TATTCTAAGC	CATGGTCAAT
120001	GCAAAAGAGT	GAGAAGGAAA	GTAGAATAAG	TTATCTAAGA	ATCAGTGGGT	GCTCTCTTTA
120061	AACTGATTTA	TCACTCCCC	TTCCAAACTC	TCTTGAAGGT	CACTCTGCCT	CCCTTCTAC
120121	ATAAGAACTC	CTAACTCCAA	GGGAGGAAGG	TAAGTTATTC	TTATTCCCTG	CTTAGAAAAA
120181	GAGAAAATAG	GTTTGGTAAG	CATCCGCTTT	CTGCTACCAT	TCTCTGTGTT	TCTGTGTTTT
120241	TTATAGGATC	ATTCAATTAT	TGGTTGGCTC	TTGAGAGGGA	ATGCAAGGTT	CAAGGACACA
120301	AGCCTAGATC	TTGCCTGTAT	AGAACCCTCAT	GATGTTATGC	TTCTCTAAAA	TGAGGCCTGG
120361	AGGAGACATG	TTGAAAAGTGA	CCCATAAAATC	TGCAGTATCT	CATGTCTCTC	AATGGGGACA
120421	AGGAGTACCA	TGGGAAATAG	CATTAGGTCA	ATGACAGTAA	CAACTCCCAG	GTGAGTTGAT
120481	TTATTCTTTT	ATTTATAAAG	TTGTTAATAT	GCTACATAGT	CCCTAATTTT	GCCACAAATA
120541	GTCATTATTT	TAATTTTCATA	TTTCACTATT	GATAAATGAA	GGAAAAAATG	AGTAGCAGTT
120601	AAGCAGTCCA	TAAACCTACA	TATAAAGCAA	ATTGGAGATT	TTAAAAATGA	TTCTGGATGC
120661	TTAAAATCCT	TCTCATTGAA	AAAAAATTTT	GTATTAGAAG	ATTTCAACAT	TCTTTAAACT
120721	GAGAAGCATA	ACATATAAAC	AGAAAACCAC	AGCAAAAACAA	AAATGCAAAG	CTCAATAAAT
120781	GAACACAAAG	TGAACACCAT	AATAATTGCC	ACACAAGTAA	AAAAACAGAA	AATCAGCCAA
120841	CCCTCCCAGA	TGCCCTGTAT	GCTTGCCTTC	AGTCACATTA	TCACTCCATC	TGCCCTAAAC
120901	ATAACCCCTA	TTTTGATTTT	CAATGCTGTA	ATTTAGTATG	CCTGTTTTTG	AAACATATAA
120961	AATGGAAATA	AAACAAATGT	AATCCTATGT	ACCTGACATA	TTTCACTCCA	GAACATTAGG
121021	TTTGAATAGA	TTCATCTGTG	TTGCTGTGTA	TAACTTTAAT	TCATTTTTTAT	TGTTATGTAA
121081	TATTCCATGT	TATGAGTGCA	ACAATTTAGG	TGTCTACTGT	TGATGCATAT	TTGCTTCCCT
121141	TTTTTCAGCTA	ATATAAACAA	TACCGTGAAT	ATTCTGTGT	ATGTGTCTTG	GTATATATAG
121201	GAATACATAT	TTTGTTTGTA	TACCTAGGAG	AGGAATTGTT	GGGTCAAATG	CTAAACTCTT
121261	TTTGAAGTG	GTGATATTAG	GTTTACATGC	GATGAAATGA	AAATTAAAAC	CACAGTTATA
121321	AACAGCATGG	ATGAACCTCA	CAAACCTAAT	GTTGATGGAA	TCTAGCTGGG	AATTCTCTGT
121381	CTTCCATATA	CTTCCCAATA	TTTTTTTTCCA	ATTAATAATTG	TTAATCTTTT	GAAGATGTTA
121441	TCCATTGTGG	CAGATGTGCA	GTATTATCTC	ATTATGGTTT	TATTTTACAT	CTTTTGCCCA
121501	TTTTTTCTTA	ATTGGATTGT	ATATCAGTCG	ACTTGGGCTG	CCATAACAA	AATACTAGAC
121561	TAGGTAGCTT	GAACAAAAGG	AGTTTATTAC	CTCACAGTTC	TAAAGGCCAG	GCCAGAAATC
121621	CTAAATTGAG	GTGCCAAGAG	ATTCAAGTTT	TAGTGAGGGC	TCTCTTATTG	ACCTGAAGAT
121681	AGTTGCTGTC	TTAGATTGTT	TGGTGCTGAA	CAGAATACCA	GAGACCAAAT	AATTTATAAA
121741	GAATACAGAT	TTATTTCTTA	CAATTCTGGT	GGCATATAAG	CCTATGGTCG	AGGGGCCCAC
121801	CTCTGGCAAG	GGCCTTCTTA	CTGTTATGGC	AGATGTGAGA	TGTCATCTCA	TATTCAAACC
121861	ACAGCAGTCG	CCTTTTGTGT	CCTCATGTGG	CCTCTTCATA	TGCCCATAAA	ATGACCTCAT
121921	GTCTCTTCCT	TTCTTTATAA	GGACACCAGA	TCTATCAGAC	TACTGGCCTA	CTCTTATGAC
121981	CTCATTTAAC	CTTAAATATC	TCCATAAAGT	CCCCAAATCC	CTATCTCCAA	ATATAGGCAC
122041	ATTGGGTGTT	AGAGTTTCAA	CATCAATTTT	GGGGGAACAC	AATTTAGGCC	AAAAAGATTG
122101	TGTTTTTTCT	TGTTGGTTTA	AGATAGCTGT	CTTTTTGTCC	TTTTTGTCTT	TTCTTTTTTT
122161	TTGAGGTGGA	CTCTTGCTGT	GTCACCCGGG	TTGGAGTGCA	GTGGCGCTGT	CTCAGCTCAC
122221	TGCAACCTCC	ACCTCCTGGG	TTCAAGAAAT	TCTCTCCTC	CCAAGTAGCT	GGGACTACAG
122281	GTGCATACCA	CCGCGCCCTG	CTAAATTTTG	TATTTTGTAT	AGAGACGGGG	TTTCACCATG
122341	TTGGCCAGGC	TGGTCTCAAA	CTCTGACCT	CAGGTGATCC	ACCTGCCTCG	GCCTCCCCAA
122401	ATGCTGAGAT	TACAGGTGTG	AGCCACCAAA	CCTGGCCTGT	CTTTTCTGTT	TTAAGTTTTT
122461	AAATTTTGCT	CACGAACCTT	TTATCCATTT	TATGTGTTGC	AGGTATTTCC	TCTGTAACCT
122521	GTCTTCACCT	TGTCAGAGGC	TGGAGTGCAG	TGGCACAAATC	ACAGCTCACT	GCAGCCTCCA
122581	CCTCCCAGGA	TCAAGCGATC	CTCCCATCTT	ATCCTCCTTA	GTAGGTGGGA	CTACATGTGC
122641	AGGCCACCAT	GCCCAGCTAA	TCTTTGTATT	TTTTTGTAGA	GATGGTGCTG	TTGCCCAAGT
122701	TGGTCTCAAA	CTCCTGAGCT	CAAGCAATCC	ATCAACCTTG	GCCTCCCAAA	TGTTTGGGAC
122761	TAGAGGTGTG	AGCCACACTT	GCACCCAGCC	AATGATATCT	CATGATGCAT	TAAAGTCATT
122821	AATTTAGTGT	ACTCAAATTA	AGCACACTGC	CCTTTTATGC	ACAACCTTTT	TTGTATCTTA
122881	TTTAAAAAAT	CATTTTCTAT	TTCAAGGTCA	TGAAGATCTT	ATTTTATAAT	ACCTTCTTGT
122941	GAAATTAGTT	CTCAAGACTA	CCCTCACTTC	TAACACCAAT	TATAAGTTGG	GAGGTCTGTG

Figure 1 (Page 38 of 73)

123001 GTTCCCAATC AACCTTAGGT TAGTAATTTG CTAAAAGGAC TCACAGAACT TGCTGAAGCT
123061 GTTAGCCTCA TGGTTACAAT TTATTATAGG ATATATAGCT TATTATGTCA TTCCAATGCA
123121 ATGTAAAATT ATACAACACT TTTTAAAAAG ATTTTAGCAT TTGACCCAAC AATTTCACTC
123181 TGAGGTATAC AAACAGCAGA TATGTGTGCA CATATATACC AAGACACATA CACAGCAAAA
123241 TTCATTGTTT GTAATAGTTG AAAAGGGGAA ACAACTCAAG GAATAAAGAT TAAAATCAGC
123301 TGAGAAAAGA AACACACAAG GCAGTATTAT GGATCGAAT GTATGCAGAT CTCCTTGCC
123361 CCCAGAAGAT ATGTTTAAAG TCCCAACTCC CAGTACCTCA GAATTGTGGC CTTATTTGGA
123421 AATAGGATAG TTGCAGATAT AATTAGTTAA GATGAGGTTA TAGTACAGTA TGATGGGCTG
123481 GTGACTTAGA AGAAGTAGTA TATATATATT TTTTAATAGA ACTAGTATTC TTCTAAGGTG
123541 GTCACGTGAA GACAGACACA CACAGGCAGA GACTGAGGTT ATGCAGCTGC AGGTCAAGGA
123601 ATGTCAAAGG TTGCCAGCAA GTACGAGAAG CTAGGAAGAG TCAAGGAAGG ATTTTCCTAC
123661 AGGCTTCAGT GGAAGCATAG ATCTAATGAT ACCTTCATGT CAGATTTCTA GCTTCCAGAA
123721 CTACAAGAGA ATATATTTGT TGTTTAAAGC CACCCTAGCT TCTAGCTCTT TGTACAGCA
123781 CCCCAGGAA ACTAATATAG GCACAATCCA GGCAAGTTCC AAATATGAGC TTCCAGTTGT
123841 CCTCTCCCAG TAATATGAAC AGTATTACTT TCCCAGCATT AATGTGTGAC AATACACATG
123901 ACGTACAGAG CAGTCCCCAC TTATGCACAA AACATATGTT CCAGGACCTC CAGTGGATGT
123961 CTGAAACCAT GGATAGTACT GAACTCTATA TAGCTGTTTT TTCTATACA GACACAGCTA
124021 TGATAAGGCT TAATTTATAA ATTAGGCACA GTAAGAGATT AATAACAATA AATTAGAATA
124081 ATTGTTAAGA ATATACTGTA TAAAAGTTAG GTGAATGTTT ATTTCTGAAA TTTACCGTTT
124141 ATTATTTTTG GACTGCAGTA GACCACAGGA ACTAAAACCA TGTAGAAACC GTATACAAGA
124201 GAACTGTATT TCACCCGAGC CTCAGTGTGC AGTTTAAATG GCCTGCCATG GTTGACTGCT
124261 CACATGGCCG ATCTTTTAGT CTACCTCCAC AGGTAGAGCT GATACTGTGT GGCTCAAAGT
124321 TCCTATTATA AATCACATTG TTGACTGTGT GGTGGTCAAA ACCTCCAGGT AAACAAAGAC
124381 ACACCTTATCA GTGAGAACAT TTCAAGGGTC TAAAATTCAT CTCCCAGTAG CTGAGGGCAA
124441 AGGCTAGACC TCTTTTGGG TAAGATAAAT TTTTACCAT ATACTTTATT TTGCTTTTCA
124501 TGTTTAACTT TATTTTGCTT TTCATGTTAG TTCCCCTGGA ATTGTTTTTT GTGTATAGTG
124561 TGAAGTAGGG GGTCAAGTTT CTTTTTTTTT CCTTTTGT TTTTTCTGT TTTAAAGGCT
124621 ATACAATTGT CCCATGCCAT TTATTTACAA GAGTCCTTC ACCATTGTTG TATGGTGCCA
124681 CTTTAGATGT AAATCAATGT CCATATTTGT TTGAGCCTGT TCCATTGCTT TGTCTATTTT
124741 TGGACAACAC TGCCCTGATT ATTGTCAATT TATCAGTTTT GATATTTAAT AAAGCAACAG
124801 ATTTGTTTAT TTTGGGCCCT TGGATTTGTG TATTAATTTT GAACCCTGTT TGTCAATTTT
124861 TATAATAAAG CTTATTGGGA ATCTGATTAG GATTACAATG GTTTTGTAGA TCAGTTTGGG
124921 GACAATTAAT ACCTTTAAAA TATTGACCGC TTCAACTGTA AATATACTCC TCCATTATTT
124981 AGTTTTCCTG TTTAATTTAT CTGAGTAATA CATTATAGTT TTCTTCGTAG AAGTCAGATA
125041 CGTAGAAAAT TCAAAGCCCA AGTGCAATAG CTCATGTCTG TAATACCAGC ACTTTGGGAG
125101 GCCGATGTGG GTGGATCACC TGAGGTCAGG AGTTTGAGAC CAGACTGGCC AACATGGTGA
125161 AACCTCATCT CTAGTAAAAA TACAAAAATT AGCTGGGTGT GGTGGCGGGC ACCTGTAATC
125221 CCAGCTAATC AGGAGACTGA GGCAGGAGAA TCGCTTGAAC CCAGGAGGCA GAGGTTGCAG
125281 TGAGCCAAGT TCCTGTCACT GCACCCACC CTGGGCGACA GAGCGAGACT TCGTCTCAAA
125341 AAAACAAAAA AAAGAACATT CAAATAATCA ATGTAGATAA TTCAAATAAC TAAAAAATGA
125401 ACAGTTATTA AAATATCAGG ATATAAAGC AAAAAATCA ATAACCTCCA TATATACAAA
125461 ATGGCCAGTT AGAGAAAAA AAAAGAATAG GCGAGACTTA AAAAGGCTGG GAATCTCCCT
125521 GAAAATCTTT GAGAGCCTTG GCCCTGCCCT CAGGGATTTT TCTGGCTTCA TGCCAGATA
125581 CGGGTACAGT TCCTTGTTTA AAAAAATTTT GCTCCATCAA TCAACAAGGG GCTCCTTCCT
125641 CAGAGCACAA GGACCTCCAT AACACCGGAC ACTAGATGTC TAAGGGACAC CTCTTAAGGA
125701 AGTTAGACTT CCAAAGAATG GTGTTTCCTC TGTCCCAAA CTCTGGAAC CACAGCACAA
125761 CTGCTCCTTG GAGTTCGGTT TCAAATCTAC AAGGCTGTCA TGGAGGTTGC AGACCAAGTC
125821 CGTGGCCTCA GTGTCCGGAT GTACGGTGGC CTTGGCACCT GAATGTGAGA ACATGACCTC
125881 CCTGAAACCA CCACAAGTAT TGTTTCATGT TATGTATGTT TTTTCTTATC TGAAATTCCT
125941 TTTCTTTAAA AATTCAAATT ACATATTTTG CAAGCCCCTG AACAAGCTTC ATGAGCATTT
126001 ATTGAACCCA CAGCTTTTAA AACCTACTGA ACACCTTGCT CTATGTTGTC ATTCACTATC
126061 CACCAATTAT TTAATTATTG ATCAATATTG TTTCTTAGT GTTGGGATCA TTTATGCATG
126121 TATTTCTTTT ATATTGCATA TTTTATATTT CTGCATTACA GTTATTACAT ATTACTTTTG
126181 CTACAGTAAT AGTTCAAAAG TGTACATCCA AAATTTAGCT GTGAAGTGA TGGACTGAGG

Figure 1 (Page 39 of 73)

126241 CAGAACTGGA GGCAAGAAAA TGTCACAGTA ATTCTAAAAA AGATGATGTA CAATTAGAGC
126301 AAGAGAGTAG CACTGAAATT GAAGAAAAAT AGATGCGTTT GAGAGAAAAAT TAGGAGGTAG
126361 AATCAACAGA TTAGATGTAG GGATGAGAAG GGTCAAAGAT GACACTAGGG TTTTAACTG
126421 GAGCAAGTAG GTAGACAGAA CATTCTCTCC TGAAAGGGCA GGTCAGATCA TGTGTTGTCT
126481 CAAAGGGCAT GAAGAGTAGA AAGCCTGGGA CAGATCCTGA GATGACCAAT ACCCATGGTG
126541 CAGGGAGAGG GAGGGAGATC TGCTAAAAAG ACTGCAAATG TCAGGATAGT AGAAAAATCAT
126601 GAGTGTGTGA TGTCTGGAA GTTGAGACAG TATCACATTT GAGAACATTT AAATTGGTAA
126661 CTCTGACAAA AAGCTGGAGG CCAACTGTGA ATGCCCATGA GAGTGAGAAG CTCCCACACT
126721 TTTGTGGGCA TCAGAAAGCC CACCAGGTTT CTGCAGTGAA GATCTGAGAA GGATCCTCTT
126781 GTGGCTTTGG CAGGGAGAGA AGAATTATTA TGAAATACAC CCCAGAACCT TCTTCAAAAC
126841 AAAGGCCTAC TCTCAAGGGG AAAACATTTT GCCAGAGTCT TATCCCAGCT GGGAGAAGGT
126901 AATTCTTCCC ACTGCAGCCT CATCTAGGCT TTCTGTCTCA CTTAAGGGAA GAAAAATTAGT
126961 CAACAGGGAT CAGAGCTTCA TGAAAAATAA TTGGAAATGG TGCAGCCAGG AAAGGAGCAA
127021 AGGTCTGAGG AGGAGGAGAA GGAGGAAGAG GAGTTGTATC ATTATAAATA CTTGAGGAAG
127081 AGGAGGAGAA GGAGGAGGAG GAGGAGTTGT ATCATTATAA ACACCTGAGG AAGAGGAGGA
127141 GGAGAAGGAG GAGGAGGAGT TGTATCATTA TAAACACTTG AGGAAGAGGA GGAGGAGAAG
127201 GAGGAGGAGG AGGAGTTGTA TCATTATAAA CACTTGTGAC GGTCCCAGCC CCAAGATATA
127261 GGCATGCTAA TAACTGAGG CTTAACACTT TGAACACAGA ATGCTGCTTC TCCCTAACAC
127321 CATCAAGGCT CCAACTGAAT AACAATGAAT TATGAATGAA AGAGCTGTAA GGAGAGACAA
127381 AAGTTAGAAAT GAGACAAGTA TTGTTATCTA GAGATGCCAA GAAGGCAAGG AAGATAACTA
127441 AAAAGGCACT CTGGATTAG AAATAGGAAG TCATTAGTGA CCTTGTAAT AATGGAGCCA
127501 GAGGAATACC AAGGCAGAA GCCTCACTAT AGTGTGTTGC ACCTGTCAGA GGTGAGGAGG
127561 TGTAAGTAC TCTCCCACAG TGTGGCTTTG GAAGAGAGAA GTCAGCAGCT GCATGGAGAT
127621 TTGGGAGAGG GAAAGCTTTT TTTTTTTTTT TTTAATTGGA AAAGACTGAG CTATGTGTAA
127681 ATAGAATAAG ACAGGAAGAG TGTAAGACACA GGAAAGAGGG CAGACAAAAA CAAGTGCACA
127741 GTTATCTAAG GGAAACAATG GGATCAAGCT GCAAGTATAT AAACCTGTCT TGATAGAGA
127801 ATCCTTGATC TGGTTTATTC AGTGTGTTGGT CCAAACCCAC ATCCCTGTTC TGCCTGTCTC
127861 TGACTTGCTC TGTGCCCCAG AAGCCCAGCT TCTACAGATA GCATTAGCTG GCAGGCCCTG
127921 CCCTCTTGCA ACAGCTGGAT TTGGCCAGTG ATCAGCCCAG CAGGAATGTA GATGGCAAAG
127981 GAGAGAGAGG TTAGTGTAAT TATTCCTGTC ATCACCCCCC TGCTTGGTGG GCAGCTCTTC
128041 CTCCACAGTC CCAGCTCTGG CCTAGCTCTG GTTACAGGTT CCCTCCCATT GCCTCTTCAG
128101 ATTTAAAGGT GTGTCTGTCA GGGTATAACT GGGAGCTAGA AATTGCACTG AAATTGAACA
128161 AAGAATTTTA TGGGAATGGT TGTAACTAG TTATAAGAGG ACTGAAAATG GAAAAGTGGA
128221 CAAACGTATC AGAGATAGTA ATGACAGAAA GCAACTACCA CCTCCAGGTT TAGGAGAACA
128281 AGGAAAAGAT TCTTTGAAGA GATCCCCAGA ACTGGGACCT CTGAGGAGTG TATGCTGGAC
128341 CACTGATGAT GATATGTCTG TAGATAGAGG CATGATGAGG CTGATTTTAG GAGCATGGAA
128401 GATCTCCAAA CTGAAGCCAA CTGCTGTTAC TGGATTCAAC TGCCACTGCC AGGTTGAAGA
128461 ACCCATCTCTG TGAGGATGTC AACAAACAAA GTGGGAAATC TTTTCACATC CTCCAGCCCC
128521 TCTAGTCTTC CTCCAGTGCT TTCTATTGGT AGGGTTTGGG GAGGTGGCTA GCAAAGCGGT
128581 ATTGGAAGAG ATAGAAGAGA CTAAATCTTC ATAACCAGCA CAGGGTGACA CTGGATCACT
128641 ACTGTTGCTG ATCTTGGGCT GCCTCATATC CCCTGTCTCT CCCATTAGCC CTGTCACAAC
128701 TTTGTAGATA TCCCTTCATT ATATGCCCTT CATATATCTT TTTGGTTTAA CTTTTCTGT
128761 TGGAATCCTA ATATGGCACT CCTCCATTTT TCAGGACCAA AAGAGTATAA AAGATTATCT
128821 TTTACCAAAA AAAAGACAAA AAACCTGATCT AATTCTGAT TTGATCATTA CACAATCTAT
128881 ACATGTATCA AAATATCACA TAGTACCCCA TAAATATATA CAACCTGTGTC CATTAATAAT
128941 AAAAATTAAA GAAAAGATGG TAAATATAGC TCTGTCAGGC AGTGGAGGTT TTACCACGAT
129001 GGCTGTTATT TCCCCCATGA AGGGGGGAGT GAGGGAGCAG CTGAAAGTAG GTGCTTATAG
129061 GGGTATAGAG GGGCTCAAAG CTTTGAGAGA GGAGAATGTC TGAAAGAGCT GCCAAATAGC
129121 ATGCAGGTCC CATGGGGGCA GAGCCTCTGC TCATTACCA GTGCCTCTTC AATATCTACA
129181 CTTAAGCCTA ACACAAAGTG TGTGCTTAAT AAGTATTTGC TGAGTATGTA AAGTGGAAC
129241 AGAACCAATC TGGCAAATTT TGTAGGACTG GTGGGCAATG AAGATCAGTC AGGTAAAATC
129301 TGTGGATATA AATTTATATT GATCAAAAAA TTCAAGGTTA GGTGTTTTTC TTCAGTCATG
129361 CTCAACGATG CTTAGCCCAT GCTCAACTCT TCTGTAGCCA CAGAAAAAAG TTTACCCATA
129421 ATCGAGCTGT GTCTGTGTCT GAATAATGAA AAGACCATGA TGCAAGGGAG TTGGAGACAC

Figure 1 (Page 40 of 73)

129481 AGAAACAGTG TTTGAAGTAA TGGGTAATGG AAGCATGCTA CCAGGGAAAG GAAAGAAGTG
129541 GCAATAGGAA GGAACAGAGA TCTGTGGTCC TATGTCCCTT GAGCATATTC ACATGTTAAA
129601 GCTAATTCAG TTTTCAATCA TCATTAAAAAT TTTGTTCCCTA AATATATGGC CATTATTTTC
129661 CACAACCACA CTAAACCTTT ATTACCTCTG GCAAGTGACT ATGCAAGTAA CTAAGAGCAA
129721 AAATATCCAC AACTACCATT TGAGCTATCA ATTTAGGGAA AGTCATCTGG CTATAATCTA
129781 AGTGACCCTC CACTGAATGT CAGTATCTTT GCATATGTGA TTAAATCTG GGCCTTCGCA
129841 ACACCATGAA CTGTTCTTGT CTTGAATATC CAGATTGAAG GAAATAATCT GAGTAGTTAC
129901 GAGTCCTGAA GCTAGAAAGA TGGAAACCCC ATTTGCTCAT CAGAAAGCCT TAGAGCTTGG
129961 GCGCTGGCGG GTCCTGTCTC ACCGGGACAG AGGGGCTCTT TCCTCCCCAT CTGATAGTCT
130021 GATAACTAGA GAAGCCGGCC AACTTATCTT CCAAGAAGGA GCCATCTTAG TCCTCCTGA
130081 AATGTTTATA TTTAGAAATT ATTGTTTGTG AGTAATTTAA CCCCTTAATG GGCTTGCCTT
130141 GTGGTCCATA CCACTGAGTG CAGAGCTTGC CTGGAAGAAT TGTGAGGGCC ATTCCATCTT
130201 CCAGGCAGTA GAGTTCAGTA CTTCTTTTAA ATTGCTGCTG AACTCTGTAT TTGAAAAGAA
130261 AGAATCATTT GGGTGTGGTA GCTCACACCT GTAATCCTAG CGCTTTGGGA GGCTGAGGTG
130321 GGAGATCAT TTGATGCCAG GAGGACCCTT TGAGACCACC CTGGGTAACA TAGCAAGACC
130381 CTGTCTTTAG AAAAAAAAAA TACAATAAAA TAAATACAAT AAAAATAAAA GCAAAAAGAA
130441 AGAGTCCATC TTAGGGACAG ACTGTAACCTA CTCCTGGAG CTTACCTTTA CATAGTTTCA
130501 GATCAATTAT AATAAAACAC TTTTGTGCAG ATTCAATAGG ATTATTTTAA TCCCCTCAT
130561 CTCTCTGAGT TTCCAGTCAG TTTCTCTGCA TGTAGACACC CTTCTCCAGC CCACCATTGT
130621 CTCTCCTCCT ATAGCTCCAC CAACAAATCA GAACTTTTTT TAAGTGCACC TAGTGCACCT
130681 AGAGTCTACT CCAGAATGCT CATGGAGAAA GTTTCTGAAA GGTAAGAACTC TGAATGATAT
130741 TTGTAGCTAA AGGGAGACTT GCTAGAGACA ATAAGCTAAT AGTTGTAGAC TTCAGTAGAA
130801 GAGGAATGAC ACTGCAATGT CAGGGTGCAG GACTTCAAGA GGGCAGAGTA TGGAAACCCA
130861 ATGGGAAAAA TGCTCACCAG GAACATGAAG AGAAGGAATT ACGTGAAGG ATTTCTCAAT
130921 GTGTTCCTCA ATTTGCCCTG CAGAGGGAGG CCTCGGGTTG ATGGCAGGCT GACCACACAA
130981 TTAAAGAAGG CTGAACCTGG GGGCTTTTAA CAACCATCGT GGGCTCTACT GTAAGCATTT
131041 AGAAAAAGAA AGTTATCCAT TCAAAAATAT ATATATTTTT AACTTCAGA ACAAATTTAT
131101 GAAGAGCTAT ATTTACTTTT CTACATTCTA ATTTTATAA ATCTGAGTAT ATTTTACTA
131161 TATTGTTATA GTACATATTC AATTTTGTAT TTTGCTGTTT TCACTTAACC ATTTTACTA
131221 GATTACTCTG TGTTCATAAT AATCACTTTT TTAAACCTTT TATTTTATT TATTTATTTT
131281 TTTTGTGAGT CAGAGTCACA CTCTGTCGCC CAGGCTGGAG TGCAGTGGCG TGATCTTGGC
131341 TTACTGCAAC TTCCACCTCC TGGATTCAAG CAGTTCTCCT GCCTTAGCCT CCTGAGCAGC
131401 TGGGATTACA GGTGTGCACC ACCAAGCCCG GCTAATTTTT GTATTTTTAG TAAAGACGGG
131461 GTTTCACCAT GTTGGTCAGG CTGGTCTCCA ACTCCTGACC TCATGATCTG CCCACCTTGG
131521 CCTCCCAAAG TGCTGGGATA ATCACTTTTT ATGCTGCATA ATTCTTCAGA TTTGTACAGT
131581 CGACTGTATT TACACTCATT TGTTTTATTA GAAAGAATTC CAGAATATTT TGGCTGCCCT
131641 AATTAATTTT ACAATTAATA TGATTTTGAA ATTGGGTATT GGCTCCTTCT GAATTGGTTT
131701 ATTAAAATAT ATTCTAATGT AATTTATGAC ATTTTCATCA TATTAGCATA TTTATTCTGT
131761 TAGAATTTCA TAATTTATAA AGCTACAAAC TGTATGTGAT ATAGCTTGTA ACTTTATCTC
131821 ATAACCTTTT GCAGTTACAA GTAGAAATAA AATGTTCCCC TCAAGATTGC TTAAATTTT
131881 ATTATAAACA AGTGTAACAA ACAAAATCAC TAAACACTC CCTCTTTTTT CCCCCAAAAT
131941 GCATGTTTCC ATTTTAAACAG AACCCGTATT TAATCAGCAG ATTTCTATGG TGGCTAGATT
132001 TGTAGACTAA ATATTAAAAG TCCCAAAGCA AATGCATTTT TCTCTTAAAT TTTACTGACT
132061 TTTTTTTTTT TTCTTTTTCT GAGACGGAGT CTTGCTCTGT CGCCAGGCT GGAATGCAGT
132121 GGCACAATCT CGGCTCCTG CAACCTCCGC CTCCCGGATT CACGCCATTC TCCTGCCTCA
132181 ACCTCCCGAG TAGCTGGGAC CACAGGCGCC CGCCACCACG CCCAGCTAAT TTTTGTATT
132241 TTTAGTAGAG ACAGGGTTTC ACCGTGTTAG CCGGGATGGT CTCGATCTCC TGACCTCATG
132301 ATCTGCCCAC CTCAGCCTCC CAAAGTGCTA GGATCACAGG CATGAGCCAC CGCGCCCCGC
132361 CTAAGTACTT TTATCCAAAG AAAATATAAG AGCTCTTCAT CATAACGTAT GTTTCTTGCT
132421 CTTGTTATTA AATATGACAC ATTTAGACTT AAAGTATTTT GAAGGTTTAT GACATTGTTT
132481 AAGTTATTAC ATAATTAATT CATAAAGATA ATGACTAGTT TGAAGTACTG ACAGCTCACA
132541 CATCATCAGT TGAACAGCAG AAAGCTTACT AAGCTACTTT CTTATGTTTC TGTCTCCAG
132601 CTAATAAAG AAACGAAACC CTTCCAGGTG TTAAGGCAA ACTTTCCTCC CCCTTCTTCT
132661 TATAAATCTG ATTCCATGTT AGTGAAATTT CTACTGATGG CTTTGGTTTC CTCTATAGTA

Figure 1 (Page 41 of 73)

132721	GAATAGAGAT	CCTATGGCAA	AAGTCATGTC	TGACATGGTA	GCAAATAGAA	ATGGGGAAAA
132781	GGAAGGTCTG	CAAGAGCCAA	TGTGGGAAAT	GGGGAGAGGA	CTGACTACAA	AAACCCAGCA
132841	GGAATTCCAG	AAGAAAACCTC	CTCAGGACGG	GCACATTGGC	TCATGCCTGT	AATCCCAGTA
132901	CTTTGGGAGG	CCGAGGTGGG	CAGATCACTT	GAGTCCAGGA	GTTTGAGACC	AGCCTGGTCA
132961	ACATGGCGAA	ACCTCATCTC	TACAAAAAAT	AAAAAAATTT	GTCAGGCGTG	GTGGCATGCA
133021	CCTGTAGTCC	CAGCTACTCA	AGAGACTTAA	GTGGGAGAAAT	CACTCGAGCC	TTGGAGGTGG
133081	AGGTGGTGTA	GCCGAGATCA	CGCCACTGCA	TTCCAGCCTG	GGCGACAAAG	TGAGACGCCA
133141	TCTCAATCAA	TCAGTCTCCT	CGAAAAAGCAA	CATTATGGAG	AGACAGGATT	CCGTCAAGGC
133201	CTGGGGCACA	CAGGAAAATA	TTAAGGCAGA	AGAGAGTTTC	CTCCCCACAC	CACACCGTAT
133261	CCCACAGGCA	CTGCGGATGT	GCATATGCAA	GAGGGGTGTA	TCCTAAGAAT	TTAGAGTCAC
133321	AGAGGAGGAG	GCACCAAGCA	GACTGTGGAG	AAAGTCATGA	CCAGAAAGGG	ACAGAATGTA
133381	AAGCTTCAGT	TGATTATCTG	GCCTCAGGGA	TTCCAGAGGA	ACTGGTCCCA	ATGGTCTCCT
133441	GGTGATGTAG	GTTCCTTAGGT	TTCTTTTACA	GGGGTTTTCT	GGGAGATCGT	TGACCCAGTT
133501	AGCATTCAAG	CAACTTCCAC	CCTGCACTTT	TATTCTTTCC	CCTTCACCTG	CTTAGGTTTT
133561	ATCTGTCCAG	GAAATAATAA	TAAAAATTATT	GAGCCCTGGA	CATGTACCTG	TAAAGCTCCT
133621	TAAAGATGAT	GCCTTCTAAC	TCCTCATTCA	ACAGATACAA	AAACATTACA	ATAAAATGAC
133681	TCATGCAAGA	CACCCAGGTA	GTTTATAGCA	GCTAATAAAA	ACAGAAATAAC	TATAAAATAT
133741	GGTAAGTTTA	TAAAAGTTAC	ATTGAGTATA	CTTTATAAGA	ACTGCTTATT	GAGTTTGCCCT
133801	AATAACCACA	CAGCACAATA	ATAATATGTA	TATATTTTTA	AATATGTGTA	AATATGTGTA
133861	ACACAAACTT	GTAGAAGGTA	TATCTGAGTA	CAACCCATAT	CTGTTTGGTT	ACCTTTTCTA
133921	GTTCATTATG	TAAGTGGCAT	AGCTACCTAA	GGACTTATGC	TTATAAATGT	TACTCAAAAA
133981	AATACAGAGG	ACATATGTGG	ATAGATAATG	GAAGAGATAA	GATAGGTAGG	TTGAAGGGTT
134041	GGGCTGCCCC	TCCACACCTG	TGGTTGTTTT	TCGTTAGGTG	GAATGAGAGA	CTTGGAAAAAG
134101	AAAGAGACAC	AGAGACAAAG	TATAGAGAAA	GAAAAAAAGG	GGTCCAGGGG	ACCGGTGTTT
134161	AGCATACGGA	GGATCCCACC	GGCCTCTGAG	TTCCCTTAGT	ATTTATTGAT	CATTATTGGG
134221	TGTTTCTCGG	AGAGGGGGAT	GTGGCAGGGT	CAAAGGATAA	TAGTGGAGAG	AAGGTCAGCA
134281	GGTAAACACG	TGAACAAAGG	TCTCTGCATC	ATAACAAGG	TAAAGAATTA	AGTGCTGTGC
134341	TTTAGATTATG	CATACACATA	AACATCTCAA	TGACTTGAAG	AGCAGTATTG	CTGCCAGCAT
134401	GTCCCACCTC	CAGCCCTAAG	CGAGTTTTC	CCTATCTCAG	TAGATGGAAT	ATACAATCGG
134461	GTTTTTACACT	GAGACATTCC	ATTGCCACAG	GACGAGCAGG	AGACAGATGC	CTTCTCTTTG
134521	TCTCAACTGC	AAAGAGGCGT	TCCTTCTCT	TTTACTAATC	CTCTCAGCA	CAGACCCCTT
134581	ACGGGTGTCTG	GGCTGGGGGA	CGGTCAGGTC	TTTCCCTTCC	CACGAGGCCA	CATTTTCAGAC
134641	TATCACATGG	GGAGAAACCT	TGGACAATAC	CTGGCTTTCC	TAGGCAGAGG	TCCCTGTGGC
134701	CTTCTCAGT	GTTTTGTGTC	CCTGAGTACT	TGAGATTAGG	GAGTGGAGAT	GACTCTTAAC
134761	GAGCATGCTG	CCTTCAAGCA	TTTCTTTAAC	AAAGCACATC	TTGCACAGCC	CTTAATCCAT
134821	TTAACCCTGA	GTTGACACAG	CATATGTCTC	AGGGAGCACA	GGGTGGGGC	TAGGGTTAGA
134881	TTAACAGCAT	CTCAAGGCAG	AAGAATTTTT	CTTAGTACAG	AACAAAATGG	AGTCTCCTAT
134941	GTCTACTTCT	TTCTACACAG	ACACAGTAAC	AATGTGATCT	CTCTCTCTTT	TCCCCACAGG
135001	AGGTGATGGC	CGGAAGAACA	TGGCAGAGGG	CAAAACAAAA	CAGCATTGGG	AACAAGCTCT
135061	GTTTAAAAGG	AGACTTGTGA	ACAGCAAAGA	GTAGAAAAGG	TTCTCTTACA	ACTGAAGCCC
135121	ATGGAAGACA	AATGTGTACT	GCGTGAGTTT	TAAGGCAATA	GGAGTAGTGG	GACCTAGGGC
135181	ACACCAGAGA	GCATATTAAC	TCTCAAACCT	TTAAAAACAT	TATATCTGCT	GGACACAGTG
135241	GCTCACACCT	TAATCCTACA	ACTTTGGGAG	GCCGAGGCGG	GCGGGTGTAG	CTTGAGCCCCA
135301	GGAGTTCGAG	ACCAACCTGG	GCAACATGGC	AAAATCCCGT	CCCTACAAAA	CAAAACAAACA
135361	AAAAACAAAA	TTAGCCAGGC	ACGGTGATGC	GTACCTGTGG	TCCCAGCTAC	TCAGAGGCTG
135421	AGGTGGGAGG	ATCGCTTGAG	CCCCGGGAGG	TTAAGGCTGC	AGTGAGCCAT	GATAATGCCA
135481	CTGCATCTCA	GCCTGGGCAA	CAGAGGGAGA	ACCTGTCTCA	AAACAAAAAC	AAAAACACAC
135541	CATACCCAAC	CACAATGCAT	CTGTCTTAAG	TACCAGTACC	ACACCCCTCT	ACTCACTACT
135601	AAATAGGTGA	GTTCCCAATC	CCTGGTAGCA	GGTTTAAGCA	TGTTATATTA	AAGGTCTTAG
135661	GCTAGTGAAT	CATTCACTCA	TTAAACAAAT	ACTTATTGTG	CATCTACTAT	AAACTAAGTA
135721	CTGTGCTAGG	TACAAAAGCA	AATAATCTAA	GCTCTATAAA	CTTTACTTTC	TTCATCAACA
135781	AAATGGAGAT	GTTTTTAGGCA	TCTACTCATC	ATTCTGAGCT	CCATCTTTTG	TGACTGTAGT
135841	TGGCAGAGCT	TTTTATCAGT	TTCTCTAAAT	AGCTCTACCA	GTCCCTGGTG	GATGCTGGCA
135901	TGCCCAAAGG	ATCCATCCTG	ATGGCCCTGT	CTGCTTACCT	TACCTGCCTG	CCTTTGCAGC

Figure 1 (Page 42 of 73)

135961 ACCGCTCTGC TCTTCTGCAG GACTTCCCTT ATCCTTTGGG GTCTTGCTGC TCTTAGGCTG
136021 CTCTGCTTGT TTTGATCTGC TTTGCATCAC ATGTATGTAA AGGTCCTTTC CTTATTTACC
136081 CATGACCAAG GTATTATGAG ATTCTGGAAT TTCCCCAAAC CACATTGATT GCTGGGAGAA
136141 TAGAAGAAGT GGATTACAAG TGGAACCTAG AAGGGGAGTA TTCGAGAAGA CGTCTCTGCA
136201 AATCCATTTA GAGAGACCTT TCTCCAGTGG TGA CTCAAAG ATGCAGCTCC TTTCATCCTG
136261 TGGCTTGGCC ATCTTCAGCA CATGGCTCCC AAGGATGTCC TCAGGATGGT CTCTAATCCA
136321 AGGAGCCTGA AGAGAAAAAA AGGCATGGAG TATTGTGAGT GGTAGGTGGT TATGGACCAG
136381 TTATGGAAGA ATACACATCA CTTTTGCCCA CCTTCTACTA ACCAGAACTC ACACAGCCAT
136441 AGACACTGAC AAGTAGGACT TAACAAGAAT CTAATTTTGA GTCTAGGAAT ACGACTGTAG
136501 CAAATATTTA ACAGCTTCAA ACACAGGTGC ATTGCTATCA CTATGCTTGG CCCAGGCCTG
136561 TCTCCCTTTC CTGCCATGTC ACAGGGGCCA GCATTTATGT CTAGATTGGG TTGGTTGGGA
136621 TATTAAGACA ATAATGAACC AATACAACAT CTTGAGCATA AAACCAACTG ATACAATGAT
136681 GTACAAGTCA GATGATTCTG ATGATTATGA ATTATGTCAA TAAAAGAAAT GTGATAACTA
136741 AGGTAATTTT TGTTTTTGGCA AATTTTTTGT TGTTCATGAC AGGATGAAAT CCTGTCATTT
136801 GTAGCAACAT GGATGGAATT GCAGGATACT ACATTAAGTG AAATAAGCCA GAAACAGAAA
136861 GTTAAACACC ACATGTTCTC ACTTATATGC AGAAGCTAGC TAATAAGTA AATAAGTTTA
136921 TCTCATTGAA GTAAAAAGTA CAACAGAGAT TACTAGAGGC TGGGAATGGT AGGGGAAAGA
136981 GATGATAAAG AGAGATTCTG TAAAATAAGT TACAGCTAGA TAAGAGCAAT CAGTTCTAGT
137041 GTTCTATTTG TACTACAGAA TGGCAATAGT TAACAGTAAT AAATAATTTT AAAGAGCTAG
137101 AAAAGAGGAC ATTGAATGTT TCCAACACAA AGAAATGAGA AATGCTTGAA ATAATGGATA
137161 TTCTAATTAA TTACCCTGAT CTGATCACTA TACACAGTAT GTATAAAAAA AACACTATGG
137221 GCTGGGCGCA GTGGCTCACA CCTGTAATCC CAGCACTTTG GGAGGCCAAG GTAAGCAGAT
137281 CACTTGAGGT CAGGAGTTAG AGACCAGTCT GGCCAACATA GTGAACTCC ATCCCTACTA
137341 AAAATACAAA AATCAGCCAG GCGTGGTGGC ATGTGCCTGT AATCCCAGCT ACTCAGGAGG
137401 CTGAGGCAAG AGAATTGCTT GAACCCAGGA GGCGGAGGTT GCAGTGAGCC GAAATCGCGC
137461 CACTGCACTC CAGCCTGGGT AACAGAGCAA GGCTCTGTTT CAAAAATAAA TAAATACATA
137521 AATAAATATT TTTTAAAAAA AGAACAATCAG TATGCACCCC ATATATACAT ATAATTATTA
137581 TGTCAATTTG AAACATAATT TTGAAAAATG AAAAAATGAA ACACAAATAT GATCAATCC
137641 TCTCCAAGTT GATATACTTA AAAGGAAAAA AGTCCGAGGG CTTAACTAT TCAATCAAAA
137701 TTTTATTAAA ATGCTATAGT AATCTGGAAA GTATTTTACA ATGAATTGGT ATAAGGTTAG
137761 ACACAAAAGAT CAGTGAAACA AAACAGAGAA CCCAGAAATA GATTCACACA TCTATGGACA
137821 ACTGGTTTTG ACAAAGGTGT CAAGGCTATT TAATAAGTAA AAAAATCGTC TTTTCAGTAA
137881 ATGTTTCTTG AACAAAGTAGA CATCCGGTGT GGGGAGAGG AGCAGGAGCC TTACCTCAAA
137941 CTTTATGCAA AAATTAACCT AAAATAGACC ATAGACTTAA ATGTAAAAGC TAAAATTATA
138001 AAATCTCTTT AAAAAATAGG AGAAAATCAT CAACACCCTA GGATTAGCAA AGATTTCTTT
138061 AAAACAAAAC AACAGGTTTA TAGTTTATATA AACATAAATA ACAAATGAT AAATTTTCATC
138121 AAAAGTGAAA ATTTGCTTTT CAAAAACAT TATAAAATGA AAAGCAGGAG GCTGAGGCAT
138181 GAGAATCACT GGAACCCGGG AGCTACAGGT TGCAGTGAGC CAAGATGGTG CCACTGCACT
138241 CCAGCCTGGG TGACAAAGTG AGACTCTTCC TAAAAAATAA ATAAATAAAT AAATAAATAG
138301 AAAAGAAAAA GAAAAATCAC AGGCTGAGAG AAAATATTTA TAATACATGT ATCTGACAAA
138361 GGACTCGCAC CTGGAAAAATA TAAGGAACCT TATAACTTAG TAAGATGACA AGCCAAAACA
138421 AAGAGTAAAA GTTTTCAACA GACATTTTAC AAAAGAAAAAC ATACAAATGG CCAGTATGCA
138481 CATGAAAAGA TTTTAAACAT CATTAGTTAC TAGGGAAATG CAAGTCAAAA CCACAATGAG
138541 ATACTTCACA TTCAACAGAA TAGCTAATGT TAAAAGGACT GACAATCCCC AGGGTGAGCA
138601 AGGGTGTGGA GGAAACTACT CTCATATATT GTGAATGTAA GAGGACAATG TTACAATAC
138661 TTTGAAAAAA GTTTGGCTGT TTCTAACATA AAATTAAACA CTTATACAGC CCAGCAATAT
138721 TTCTGGGTCA TTTCTCCCAG ATAAATGAAC ACATGTCCAT ACTATGACAT GTACAAATGT
138781 TCATACTGGC TTTGTTTTCAC AATGCTATAA ACTGGAACA ACCCACGTGT CCATCAACAG
138841 GTGAATGGGT AAATAAATTG TAATATATCG GCCAGACGCA GTGGTTCATG CCTGTAATCC
138901 CAGAACTTTG GGAGGCCAAG ATGTACGGAT CACCTGAGAT CAGGAGTTTG AGACCAGCCC
138961 ATCCAACATG GTGAAACCCC ATCTCTACTA AAAAATTAGC TGGGCATGGT CACGGGCGCC
139021 TGTAATCCCA GCTACTCGGA AGGCTGAGGC AAGAGAATCA CTTGAACCGA AGAGGCGGAG
139081 GTTGCACTGA GCCAAGACCA TGCCATTGCA CTTGAGCCTG GGCAACAAGA TGGAACTCC
139141 ATCTCAAAAA AAAAAAAAT TGCAATATAT CTATATCTTG GAATATTATA AAGCAATAAA

Figure 1 (Page 43 of 73)

```

139201 AGGGAATAAA CTACTGATAT ATACACAAAA TGGATGAATC TCAAAAATGT GAAGGAAAAAT
139261 AAAAAATACA TATGATATAA ATTCCATTCA TATGAAATTT TAGGAATGGG AAAACTAAGC
139321 TGTAATTATG GAAAGTACAT CAGTGGCTGC CTGGGGCCAA GAGGATGGAA GAGGCGGCAC
139381 AGGTGATACT ACAAATGGAA ACTATCTAGG TTGACGGAAG TGTTCCTGTAA CTTGATTACA
139441 GTAGTAACTG TTTGGGTATA TAAAACGCAT CAAATTGTAT AATTAATACA GGTGTATTTT
139501 ACTGTGTATA AATTATTCCT CAATAAAGTT GATTTTTTCAT TAAATATATT ATTTGCTAAA
139561 ATGAGGAGAG ACAACTATTA TCTTAAAATA GTTAAGCACA ATAAAAATAC TACAATCAAC
139621 TCATTATATA TGGAAATTAA AGGAGAAAAA TAGTGGTATG ATTAATTAAT ATAAAAAGAA
139681 AACCTTCTAA ATTTTATCTT AGCTCATAGT TGTAAAAGCT GCCATCCCTA ACCAAGGCCA
139741 CCCTTGACCC TTTCTCATGT TCCATCTTTC TGTTTGTTC ATAGTTTATG TCTCACCAAA
139801 ATCTATCAGA TAAACGTATT CATATGAAGA TTTAAATATA TTACATGTTA AGCCTTAGCG
139861 AATACTTCAA TATCTAAAGA AGGTACAAAC AAAACAAAAA TCAACACTTA GTTATAAGAG
139921 ATTACTACT CTCCAGGGA GACCTGAAGA CTAGCCCCTT TCTGGATCCC ACTAGCCCCT
139981 CATCCCACTC CAAGCCCTCC CCTCCAATCC CATATGCACT GGGCATTCTA ACAAATAAGA
140041 CCATCAGCTC TGGATATCTG TACTGATTGA TGCTCCTGCT AACTACCTGA ATGATTGCGA
140101 TGTAAGGACA GCACTGCCTG AATCCTATTT ATCTCTCGCT ATGCCATAGC GGCTTCCAT
140161 GCTGATGGCG TGTTTGAGGA TCCAGAGGGG TCTTTGGTTG GCAGGATTGT TTTATTTCCC
140221 CAAGAGGAGA GCCTTGATGC AAAAATAGGT GAAGAAATCA GTACAACAAA ACAGAAAGCC
140281 TAGAACTAC TATGAACACA ATAGAGCAGA AGTAGCCTTA AGAGTTGGTG GAGAAAGGAT
140341 GGTCTATTCA ATTACCTGGG CTGAGAACT GGCTTTCATA TGGAATAAAA ATAAAATTAT
140401 AGCTATACCC CATATCATAC ACAAAGTTT CTACATCTAA CAAAGACACA GATAGAAAAT
140461 GTTTTAAAT TTTAGAAGAA AATAGTGCAG AATTTTAGTG CAGAATTTCT TAGACTAGAT
140521 GCAAAAACAA AAATGATTAA AGTGGCCAGG CACGGTGGCT TATGCCGTGA ATCTCAGCAC
140581 TCTGGGAGGC CGAGGTAGGT GGATTAGTGG AGGTCATGAT TTCGAGACCA GCCTGGACAA
140641 CATAGTGAAA CCCCATCTCT ACTAAAATAC AAAAATTGGT AGGGTGTGGT GGCTCACGCT
140701 TTTAATCCCA GCTACTTGGG AGTCTGAGGC AGGAGAATCA CTTGAACCTG GGAGGCAGAG
140761 GTTGCAGTGA GGGGAGATGG CGCCACTGCA CTCCAGCCTG AGCAACACAG CGAGACTCTG
140821 TCTCAAAAAA ATCTAAAAAT AAAAAGATTA TTTTAAAAAG ACTATTTTAA ACAAAAAAAA
140881 TCGTTTAAAT GATATGACAC ACTACATCTA ATATTTGGAA AAGTACTTCT TAATACTTTT
140941 AATAAAAAGA GCGCTGAGA GCATACAACC TATCCTCAGA AGAGTGTTTG ACCCTAGGA
141001 GGGACGCAAG CGCGTCTTC CTTCAATTTA ACTGGTCATT TTCATTTATT TCAGGAACAT
141061 CTGAAGTAAA CACAGTCACA CGTTAACCTT TAAAAATCTA GGAGGTGCGT ACGCATAGTT
141121 CCATTACTTC AATTTTTGTA CTTTTCATT TTTAAATATC ACAGGGAAGC TCGGTACAGC
141181 TTCAAGGCTA GGAGGGGTGG CTCTCTCTTA AGCCCTGTCC CCGCCAGCCC CAGACCTCTC
141241 GTCCCGCCCC CATTGCCCAG TCCCCACCT CACTTCCCCA TTTCCCCACT CCCGCGTCT
141301 CTTAACGCAC CTCGTTTTTC GTCCAGTGA CTCAGACCTG TAGTCTTCCA CCAGGATCGG
141361 CTCCTTTCCC GGAGCTCTCG CTCTTAGAGG AAATTGAGAG AAGCATCAGC GGAGACCCAT
141421 CTGTGGCTCT CCAGAGGGCG CGGCATTGAG ACCCCAGATC CAGCTGTGAG AACGGACCCC
141481 AGGCTCACAC CAGGCCTGCG GGAGGCGGCC CACCAGAGGC GCTAGAAAAC AAGCCTCGCG
141541 GGGAGGCGCG CAGGCGGACT GCAAGCTGTA GGGGGCGCTG GCGCCCTCAC AGGCCAGGGG
141601 CAGGGCCGCG GCTGCGGGCG GGGCTCCTGC GGCGTGAGGG GCGGCCCCAG GCCAGCAGCT
141661 GCGCCCTGGC TGGGAGCCGG GGAGCATTTG CTGCTCTGCT GGACCCGTAG TCTGGCGGCG
141721 GGCGGCCTCC TCTCCGCTCC CCGCCCGCCA TCCCCCACT CCCGATCTCT CTGCTGCGTC
141781 TGGCCTCAGG CTGAGACCCC AACGAATCAT TCCCCGATG GGAACATTTT ATGATATAAC
141841 TGAATTACAG TTTATGTATA ACTGAATTAC GGATATGAGA ATCTCAAATG AGGACGAATG
141901 GTTTTTACGC ACAAACATG AGACACAAAT CTGTAAGAAA TATAAAGTCG TGACCACGTC
141961 CTTTCAGAAC TTTAACCTGT TTGCTGAAGT ACGTCAGTAA CAATGGCAGG GAAAGGGTAT
142021 CTTAAATTTT ACCACAGCCT CAAAGAGGCC ATTTTCGTGGA TCCGCTGAGG CTTGGAGTCG
142081 GCCTTCTGAC CACGAGTCCT GCGGCTATGA AAGAGGAAGC CGCGGTTTCA GGCCTCCTCG
142141 CGAGTCGTGC AGCCCGCCCT GCTCCAGCTG GGGACACCGG TGGTCACGGC GCTTTCCAGC
142201 TGCAGATCCA GGCGGCAGCC CAAGATTTGG TCCAGCCGCC AAGGGGTGGC TCGAGTGACT
142261 GACGGGCCTT GAACGCTCCC AGGACCCACA TCTGGAGAGG GAGGTGGGGG TGGGGTGCTG
142321 AAGTCATTCT TGGGGCCCCT GGGGGCGGGC ATGGACCTGG GTAAGGCCAG AGAAATTGAC
142381 ACCTCGTGAC ATCCCTGGAA GAGAAGTACG TTCAGTGTCA CTCCAGAGCT GAAACCGCCT

```

Figure 1 (Page 44 of 73)

142441 TCTGGCTGGT CCCTCCTCAC CTACATACTT TTCTAATTTG TCTGGAGCAG GCCGGGCATC
142501 TGTATTATCT GGTATTATTA ATATCTGGTT ATTTAAAAAGC TCTCCATTAA ATTCACATAC
142561 ACGAAAATAA AAATTAATAA AAATTTTAAA AAAAAAGAAC AAAAGCTCTC TAATGACCAA
142621 GTCCCTACACG ATAGTGAATA AATTTTTTTG TGTGGTCCCT AAAATTGAGT TCATGCCTTT
142681 TCTGAAGTAA TAGACGCCCA GAGAAGGGAT CGACTTACCC ATCATGCCAC AGAGATTAAT
142741 TGGCCCCAGA ATTCCTTAGC AGACCGTGTA TATGAACGTC CTTTGCAATC ATATAAATTA
142801 ACTGGGAAAA CCTCATTTAG TATGTTACAT GCCTAGCGTT TTGTGCCTGA ACACCTTACA
142861 AGAACCAGGG ACTATTGCCC CAATATTATA TTTCAGGAAA GGAAGGCCCA GACAAATGGT
142921 GTCAC TGGTC CACTTTCACC CAGTTGGTAA ATGAAAACCAG AAATTATAGC TGTACCACAG
142981 AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATACAATCT TTAATGGACC CAGTGTCCAA
143041 CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA AAAATAGTCC TGTCTCAGG
143101 GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA GACAAAGGGG AAAGAGAAGG
143161 AGCGCTGAAG ACTGAGGACC CTGCCTGTGG ACTGAAGTGA GGATGGGGAC ACCCGATGCC
143221 CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA TTCTCTATCA GAAAAACAGA
143281 ATTACTCTCC TAACCAGAAA AGGTATTTCA ATTTATATTT TCCATCACAG CACTTTTCTG
143341 GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGAT GGCCTGGTGT GAAATAAATA
143401 ATAAAAATTT AAGAATTAAT AAATATAAAA ATCTTTTATA TAGACATTAG GAGTTACAAG
143461 GATAACTGTG AATTATAATT AGTAATTAAT TTGAAATACT GATTATTTTC ATTTTATTTT
143521 AATTATTTAA TAAAACCTAT TTAACATTTA ATATTTATCA GTAATTAAAT CTAATTGTTA
143581 ATATTTATTA TTATAAATTA TTTTAGAATT AAAAAATAAGT GTAGAAGCGA GGCATGGTGG
143641 CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG GAGGATTGCT TGAGCCCAGT
143701 AGTTCAAGAC CAGCCTGGGC AACATGGAGA AACCTGTCT CAATACAAA AAATGAGCCA
143761 TGTGTGGTGG TGCGTGCTG TAGTCCCAGC CATTCTGGAG GCTGAGGTGG GAGGATGACT
143821 TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG CCACTGCACT CCAGTCTGGG
143881 CAACAGAGCA AGACCTGTG TCAATATACA TATGGACAAA CTTAAATTT AAAATGAAAG
143941 CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG TCCTATAACC AGAACAATAA
144001 AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTT ATGATAAATG GCAATTGCAA
144061 ATATCCTGTA GCAGAACAAA ACAACAAAAC TGTAGATAAA ACATATCCAA CCCTTTGGAA
144121 GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA CCAGCCTGGG CAACATAGTG
144181 AGACCCTGTA TCTAAAAAGG AAGAAAGAAA AAAAAAAGG GGATGATAAA GTAGACAATA
144241 TTGAAAGCCA TTTTCTGCAA ATACATAGTG AATTTGATCA GTAATTTTCT TCCAACAGTG
144301 CAAAAATGAA TAGATATTAG TTGCCTGAAA TAAAAATCAA ATATCCAACA AAAAAATTTG
144361 ACTATCTAAT AGTATCTAAG CTAGTAAATT TGGCCAGTTA TAAAAATGCT TAAATTTTAT
144421 TTTAAAAAAA GAAAAACCATA TTTATAAGAA GAGGTGATAA AGAGAAATTA TTTTCAGTTAT
144481 GAAGATTTTG TTAGAAAACT ATGAGAAAAA AACTATTTTT TGTTTTTCAA AAGTGAAAGA
144541 TTAAGTTACC AAACAGTTGC TAAAGAATAC CAGATGGCTG AGCGTGGTGA CTTATGCCTG
144601 TAATCCCAGT ACTTTGGAAG GCCAAGGCAG GAGGATCATT TTAGGCCTGG AGTTCGAGAC
144661 CAGCCTGGGC ACTGTAGCAA GACCCGTCTC TATTAATAAA AAAAAAAGA AAAAAAAGA
144721 ATACAAGACC TTGCTAACAA TAGCAAAGAT CAATTAATTC AAAATTTGAA AAACGTAAAT
144781 TTATTTAGCT TTAGAGTACT CTCGTGATAT GAGATTGCCA AATTAATACT TTGGGTGCAT
144841 TTCTTTTCTC AAAGGACTTG CAAATTTACA AAGAAGTGTT GAAGAAAAGC CACACATTGG
144901 CAGGTAATGT TTGCAAAAAG CAGATCTGAT GAAGAACAAT ATTTTGTAGAA TATACAAAGA
144961 ATACTTAAAA CTCAACAGTA AGAAAAATAAC CTGATTTAAA GCAGGCCAAT GACCTGAACA
145021 TCTGTTTACC AAAGAAGATA CACAGATGCA AGTATGCATA TGAAAAGATG CTTGACATCA
145081 TGTCATTAGG GAACTGCAAA TTAACAACAAG TAGATACCAC TGCATACCTA GTAGAATGAC
145141 CAAAATTTAG AACACTGTCA GCACCAAAGG TTGCAAAGAT ATGTAGCAAT AGTAACTTGT
145201 TCATTACTGG TGAGAATGCA AAATGTGCAA TCACCTTGGG AGACAGTTTG GTGGTTTCTT
145261 ACAAAGTAA CCATACTTTT ACCATAAGAT TCACCAATCA CACTCCTTAG TATTTATCCA
145321 AAGGAATTGA AAACCTATCT CCACACAAAA ACCTGCACAT AGATGTTTAT AGCAGCTTTA
145381 TTCATAATTT ATCCAAAACT TGGAAACAAG ATGTCTTTCA GTAGGTAAGT GGATAACTGT
145441 GGTACTTCTG AATAATGGAA TGTATTATTAG AGTTAAAAAG AAATGCATTC ACTTTGGGAG
145501 GCCGAAGTGG GTGGATTGCT TGAGGCCAGG AGTTTGAGAC CAGCCTGGTC AACATGGGAA
145561 AACCCTAATT AGCCGGGCAT AGTGGCGTGA GCCTGTAATC CCAGCTACTC GGGAGGCTGA
145621 GATATGAGAA TCGTTTGAAC CTGGGAGATG GAGGTTGCAG TGAGCCAGTG CCACTGCACT

Figure 1 (Page 45 of 73)

145681 TCAGCCTGGG CAACAGAGCA AGACTCCTCT GTCTCAAAAA AAAAAAAAAA AAGAAAGAAA
145741 AGAAAAAAGA AAAAGAAAAA GAAAAGAAAC GATCAAGCCA TGAAAACACA TGAAGGAAAC
145801 TTAAATGTAT GTTACTAAAA AGCCAACCTG AAAAGACTGC ATACTATATG ACTCCAACCTG
145861 ATGCAGGGCA AGCAAGCCAA AAATTAGGGC TTAGCCCGGG AAGAATTCAA GGGTGAAGTG
145921 GTGGTGTTAG CAACTTTTAC TGAAGCAGCA GTGTACAACA GCAGAACAGG TACTGCTCCT
145981 TGCTGAGCAG GGCTAACCCA TAAGTAATGT GCCCAGAGTA GCAGCTCAGG GGCAGTTCTG
146041 CAGTAATATA CCTGCTTTTA GTTAAGTGCA TGTTAAGGGG GATTATGCAG AAATTTCTAG
146101 AAAAAGAGTG GTAACCTTCG AGTAGGTACA GAGGAAAGAA GTCGATAATG TCCTGTTGTT
146161 GCCATGGCAA CGAAAACTG ACATGGCGCT GGTGGGCGTG TCTTATGGAG AGGTGCTTTA
146221 ACCTCGTCCC TGTTCGGCT AGTCTTCAAT CTGGTCCGGA GTAAAGTCCC TGCCTCCGGA
146281 GTTCACTCCT GCTTCCTGCT TCACAACCTG ATGACACTCT AGAAAAGACA GTAACATATG
146341 ACACAGTCAA AAGATTAGTT GATAGAAATT GGGTGACAGG AAGTGTGAA AAGGCAGAAC
146401 ACAGGATTTT TAGGGCAGTG AAACCTCTGT GATACTATAA TGGTGAATAC ATGACATTAT
146461 ACATTTGTCA AAACCCATAG AAAGCACAAC ACCAAGAATA AACCCATAATG TAAATACAG
146521 ACTTTCGTTG ATAATGACGT GTCAATGTAA GTTCAATTGT AATAAATGTA CTACTGTGGT
146581 GCTGGATGTC TATGGTGGGG GGACATTTTT GCTTCAATAG TTACAGTTGA AGTAAATGTT
146641 TGTGTTTCCC ACAATGCATA TGTAGAACT CTCACATTCA ATGTGATGGT CTTTGGAGGT
146701 GGGCTCTTTG GGTGATAGTT AGGTTTAGTT GAGATCCTAG CAGATCGAGT CTTTATGATG
146761 GGCATGATGG GACTGGTCCC TTATAAGAAA AGACCAGAAA GCTAGCTCTC TCTTTGCCAT
146821 GTGAAGACAT AGCAGGAAGG TAGCCATCTG CAAGCTAGGA AAGGGCCTTC ACAAAGAATC
146881 AACTCAGACC TCAGAACAGT GAGAGATAAA TTGTCGTTGT TTAAGTCACT CAGGCTGTGG
146941 TATTTTGT TT CAGCAGCCCA ACCTAAGACT GTTAATTGGA TTAGAAATTT CTTTTTGGGG
147001 ATGGTGTGTG GCGGGCGGGG GCGGGGAGT ACCTTTGT TA AGCTTTTATA TCAATGAGTT
147061 TGTAGGCTTT TCTTTTTTGG TCATTGACTA GGACAGTTTA AATAGTATGA GTGTGAAGGA
147121 GATTGTTGGT CATCTATTCT ATGTCCCTTC TCTGTTTTTT AATATGAGAA CTCTGATTT
147181 TCAGCCAACT ACCCTGGA AAAAGCTAAT CTTTCTGACT TCTTAAGTGT GGCCATGTAC
147241 TAAATTCTGG CTAATGCAAG GCAAGCCAAA GGTTTTATGA TAGGTTTTAG GACACTAGAG
147301 TAAAAGAGAG CTGTTGCACA CATGCTCTTC ACCCTACTTT TGTGTCCTTT TTTCCATCCT
147361 ACAACTTGGG TTGTGAGTAT GATGGCTGGA ACTTTAGTGG CTCTCTTGA TCCCAGGGGT
147421 AATTGAGGGG TGGCTGGAAG GAATCTGTGA TTTTCTGGAG TTTCCATACA CAAACAAGAC
147481 CTGGATTTTC TGGGCTTCCC AGACTTCCAC ATCTAGACTT GCTTTAAATG GCTTTAAAT
147541 AAACCTGT TT CAGCCACTGT CATTTTGGGC TATTTTATAG AACTTAATCT AATCTTAAAG
147601 GGTACATGAA TTGCTTTTCC TTAATAAAAA AATCAGCCAT AAAATCATCT TCTTTTTTCT
147661 TTTGTTCCCC ACATTATTTA GTTGGAGCTC TGTAACTTTT TTTTTTTTTT TTTTGGAGAC
147721 AAGGTCTTGC TCTGTCACTT AGGCTGGAAT TCAGTGGCAT GACCATGGCT CACTGCAGCC
147781 TTGCCCTCCT AGGCTCAAGC AATCCTCGTC TCAGCCTCCT GAGTAGCTGA AACTAAGGCA
147841 CATGCCACCA TGCCAGCTA ATTTCTTTTC TTTTAGAGAT GGGAGCCTTG CCCAGGCTAG
147901 TCTCAAACCTC CTAGCCTCAA GTGATCCTCC CATCTCAGCC TCCCAAAGTG ACAGGATTAC
147961 AGGTGTGAGC CACCATGCCT GGCTGCTCTG TAAGTGTCTG AATTTTCAATTT TGTATTTATC
148021 AGTCTGTTTA GATTTTCTTT CCCTTCTTGG GTCAGTTAGG CCATTGGTTT CTTTTTAAAG
148081 GTTTTCAAAAT TTATTTGTCAT CTAATTCTTC AAATTACTCT CAAAATTATT CCAGTATATA
148141 TTCTTTTGTT CCTATTTTCT TCTGTATTCT TTATTAAAT AGCTAATGAT TTATCTAGCA
148201 GGACTTATAT TCTTTCCATA ACTTTCCTGC ACCCCAATTA ATCTCCAAT TTATATTTCT
148261 TCTGGCCTTC CTTATAGTTT CCACAGGTTT ATTTTATTCA TTTTTTAAAA CTTTTATTTA
148321 ATTGTTTATT TTATTATCAT TCTTCTTAT TCAGCAATCT AAGTGCCTAG GGATATAGAA
148381 TTTCCCTCTAA GCAGCATATG CTAGGCTTTA ACAATGTTAG GGAGGCCTCC CTTTCTGGG
148441 GAAGACCACA CTTACATTAA CACAGGACTG TGGGATGCCA AGAGGTAGAG AAGAGCTTAT
148501 GAATATCCAG ATTACATCTT CACTGATCCT GCACAAAGGT GGGGTTCCCTC GGTACCCAC
148561 TGGGTCTTAT TACCCAAGTC TGGGTGAGCA TACCGAGACT ACGGGTATAT AGAACAAGTG
148621 CAACTGGCGA TAATCCTTCT GTTGGGGAGA AAAATCTTTT TTTTCTATTC ATCTTAGGTT
148681 CTCCATCTGT GGCCCTATCA AGTAGACTAA CAAAAGACAG ATTGACAAGA CAGAAACAAA
148741 GCATGTGCAT TGTACAAACA CAGGGGAGTA CTGAGATGAA TACTCAAAG AGGATTTAGA
148801 ACTTGGGCTT ATATAGCATT TTAAGAAAAG AATACATTTT TTAAGTGACA AGGAAGACGA
148861 AAAGGACTTT GAGTTTCTAG TGCAGTAAAT TGTGGGAAGG CAACTTTTTT TTTCCCTTTT

Figure 1 (Page 46 of 73)

148921	TTTTTTTTTTT	TTTTTAAAAA	AAAAGACTTC	TCTGGTGCTA	TGTCAGGCT	GATAAGAGTC
148981	TAAAGTCTCT	GGTGACTAAC	TTTTGTTCTT	CCCCGAGTAA	GAAGACACCT	TCACAATTTT
149041	ATATCCTGCT	TTTAGGCAAA	TAGGGAGAGG	GCAGAGGTGT	TTGTTTGT	TTAATCTATT
149101	TTTTTTCTCA	ATTGTCTTCA	ACTCAAATA	CTTCTTATGC	CAAAGATGGC	ATATTCTGCT
149161	ACCCTTCACT	TACTACTTAC	AACCCAGCCT	CTATCATCAT	AATTAGAACT	TCTGACCCTG
149221	GGGAACATGG	GCAATAGTTT	GAACTCTTTT	ATATCTCCCT	TAGGCAGAGA	TGGAGGCCCA
149281	GCCATGCCTC	TGACATCTAG	ACACAACGT	TGCTTCATTT	CTCCTATTCT	CAGAGGTGAT
149341	GTTGTAGGAC	TTCAACAAAT	ATCAGTAAAC	ATTAATTTTT	TTTTTCCTTG	AGGCACAGCA
149401	TGATCTTGGC	TTACTGCAGC	TGCTGCAGGC	TCAAGCAATT	CTCCTGCCTT	GGCCTCACGA
149461	GTAGCTGGGT	TACAGGCCCC	TACCACCATG	CCCGGCTAAT	TTTTGTATTT	TTAGTAGAGA
149521	CAGGGTTTCA	CCATGTTGGC	CAGGCTGGTG	TTGAACTCCT	GACCTCAAGT	GATCCACCTG
149581	CCTCAGCCTC	ACATAGTTCT	GGGATTACAG	GCGTGAGCCA	CCATGCCTGG	CCATCAATTT
149641	TTATGTCAAC	TCTAAATTAT	AACATTTAGC	AATTTTGTGA	CTTTTATGG	TCATCATTA
149701	TGTTGTTTAT	GTTTTAGTTG	TAGTCCTGTC	ATTACTCACT	CGGGTATGGT	AATTTGGTCT
149761	TTTTCAAAA	GAAGTTAAG	TCTATTTGCT	CTTCTCTGAA	TCATAATAAG	AAGTCCAA
149821	AGCCATTTCA	GCAATAACTA	TTTACTGAGA	TTTTAAAATA	TTTCAAGTA	ATTGGTCTTA
149881	GCAGACTTGA	AAATAACAAA	TTCTTTTCCA	GAAGTCAATC	CCCCACTAAA	GTTCAATTTT
149941	ACTCATAATT	CCCTTTTCAT	TTGAAGCATC	TCATTGTAAG	CCAGTCTTAA	CCCTTCTCTC
150001	ACACTTTGCT	TGGCTGTTTC	TCAGGTAGAA	CTCAGTAAGT	CTGGTAGCCT	CCAGGACTGC
150061	CGCTTAGATT	ATTAAACAAC	ATGTCAGTGG	TTGGAAGAGT	CAATGTTATT	TTGATTTTTT
150121	TGTTTTGTTT	TGTTTTAAAT	GCAGTTGGCG	GATAATTGCA	GCTTTCCTTC	ATTCCCTACA
150181	TGAGTTCAAA	TGGCAGCAAA	CAAAC TAGGA	GAACGCAGAC	CTTCTGACTT	GTGGGTACCC
150241	CTACTCATCA	CCTGAAGACC	CTTGGAATC	AAAGCCCTGA	CCCATTAAG	ACGGATGGAG
150301	ACAGCAACAT	ACGATCATCA	CTATTATCTT	GCTTTGCCCC	AGTCCAGGTT	AACCATCTGT
150361	GGTATTTT	GTTGCTAAGT	CCATATATTC	AACATAAATC	AATTATATAT	CCACTAAAAT
150421	CTCAGCACTA	GTCTAACTAC	TAAGGAAATG	ACAGCGAAGA	AAACAGACCA	AACGTCTGCC
150481	CTTATGGGAT	TTATATTATT	TTCTCTGTGC	TGGTTAAACC	AAGGAGCTTC	TGCTCTTTTC
150541	CTTAGTCACC	TGGGGGAGGC	AGAAACAAAG	GAGAATATTG	ATAAACCTGG	AAATAGGGCC
150601	GGAGAGTATC	AGAGAAGGAA	GCCTTCGGGA	AAGTAAAGAT	GTGGCAGCCA	GTATTC
150661	TATAAAAGGA	TACAACTCCG	GCCTCATAGT	CCAGAAAAAT	TCCCACAAGC	AGGGGCTGCT
150721	CATGCAGATG	AAGGGAAGTT	GGGGGAGAA	TAAGTGCTAC	ATAGCCTTTC	TTTTTGCACA
150781	GCCTGAGGGT	CCAGAATCCA	GA	CTTGCTTCAT	GCCAGTGCCC	CTCTGCACAT
150841	TTTCCATACA	AACTCCTAAA	TCCCATCCGG	TTCTTCGCC	AACATCCACT	TCAAAGTAAC
150901	GTCTTCTCTGA	GGTGAAGCCT	TCACAACCCA	AGACACAGGG	G	AATCTCTCTGG
150961	AAGATTGTGTC	CTGATTTCC	TGGGTGTATC	CACGAGTCAC	TTGTCTCCGA	TCCCTCAGAGA
151021	GAATTAGTTC	GTGATGAGCT	GTATCTGGAT	CCAGAGTCAC	ACTAACTGCA	AAACAAAACA
151081	AAACAAACAA	AAATAATTTT	GTTGCTGTGA	AGAACACAGG	TTATTTTATT	TTATTTTATT
151141	TTGAGATGGA	GTGTTGCTGT	CACCCAGGCT	GGAGTGCACT	GGCACTATCT	CAACTCACTG
151201	CAACCTCCAC	CTCCTGGATT	CAGGCAATTC	TCCTGCCTCA	GCCTCCGGAG	TA
151261	TACAGGTGCG	CACCACCACA	AGTGGCTAAT	TTTTTTAAAT	TTTCTGTAGA	GATGGGGTTT
151321	CGCCATGTTG	GCCAGGCTGG	TCTCAA	CTGACCTGAA	GTGTTCCACC	CACCTCGGCC
151381	TCCCAAAGTG	CTGGATTACA	CAGGTGTGAG	CCACCATGCC	CAGCCACAAG	TTATTTTCAA
151441	TAAAACCAGC	CTGTGTTCAA	ACCCA	TGTTTCTTAT	AAACTGGGTG	AGCTTAGGCA
151501	AATCATTTTAA	CTTTCTGAGC	CTCAGTTTGT	TA	GTGGAAATTA	CCGTATTTGT
151561	TGCAGAGAAT	GGTGGGTAGG	ATTGAATAAG	CTTATGTTTG	CTTAATGCTT	GGTAAAATTC
151621	CTGGTACATG	GTAACCACCT	AATAAGTGGT	AGTTGTTGGG	GTGATCAGGC	CCAACACCAG
151681	GCCGTGGGGG	CTACAAAGTC	CGGCGGGGTC	AAAGGAATGA	GAAAAGACAA	GTTAAGAGTG
151741	CATAAAGTGG	GTCCAGGGTG	CCAGCACTAG	ATTGGAGGCT	GCAAAGGCC	TAAGCTCTGG
151801	GAGCCACAC	TATTTATTTG	TGATCAAACA	AAGAAGCAGG	TGGTGAGGAC	GTGAGGGTAA
151861	ACAGGTGAGG	GCATGAGGAC	ATGGGGGTAG	AAAGGTAGTG	GTGCATTAAG	CGTAGCTGTG
151921	ACAGTTTAGC	ATTTTCTTTG	ACACATGTAG	AATATACTCT	GCTGCTTGAG	ATAGTAGAGG
151981	ACACGTTTAT	GAGTGAAAAG	CAAGGAACCA	ACAAGTCTGT	GC	GAGGCTATGA
152041	GGGGTTTTAT	GCCCTGAGCC	CTGGGTTC	TCCAAGCCAC	AAGGGGTTTT	ATGCCCTAGG
152101	CTTAGATTTG	TGGTGCGGCA	GGGCAGCCTT	CCACCATTTG	GCACAGAGCT	TGGTGTTCCA

Figure 1 (Page 47 of 73)

152161 AAGGCCACGA GGGGTTTTGG ACCCTGGACC CCGGACATCT TCCAAGACTC TTTTACATTA
152221 TGACAGACAA GCCAGTCCTG CTTTCAGCTCT TCTAACAACA TGTAGTAATA ATGATATCAT
152281 CAACATCATC TTCGTCTTAA TTATTCAAGG ATGCCAAGGT ACAGAACTAA CCTGTTAATA
152341 TGGTTACCAT CCTGTCCAAA GTTCTTCTCC CATGCAGGAC TTCCAGGAAT CATGAGACAG
152401 TTGAGCAGAA AGATACCTTT TCCCTTCTCT ACTGAATAAC CACCAACATT GAGAATCAGA
152461 GAGGGAAAAAT GACTCAGCTA ATGTCTTAGC TTGTTATTGG AAGACCCAGG TCTCATGACA
152521 CATGCCTAGT CCCATGACTT TTAATTGTAA GCTCTTCTCT TTCCCCTCAG ATAATGTTCC
152581 ATAAGCATTA GTATGAGATA ATAATACACT GAGGACCAAT ATACATGAAA AATATCAGAC
152641 TAGAATCAAA CAAGACAGAA AAAAGATCTG ATAACCTAAA GTGAGATACT GAACAGTATG
152701 CAGTTTTAAA AATAAAAAAT GGTAATAGGA TGTTCTAACA AGAGAGTTAA GAAACCACTG
152761 TGCTACTGAG TTAAATGTTG ATCAGTTGGT CTGTGACAAT TAAGGAATTC AAGTATTCAG
152821 AAACACTTCC TGTGCTGGAT GCTCTCTGTT TGTTCCTCCA AATAATCCCT CACTTTTCCC
152881 TGCTTGGCTC TGTGCCCAGG AAGGCTGACA TGACAGATT AACCAGGCTT TCCGCCCTCT
152941 GGCTTGCTTC AGCCAATGGG AAGCACCAGA GGAGACCATA GGGCACAAG AAGCAGCCTT
153001 GGGAGTATTC AGTACCCAG TCCACGCTA TGATTTGGAG GGTCTGCATT CCTCTGCCCTC
153061 TGGGCACACT CTAGTATAGT TACAGCTCCC TACACCTGCC ACTTGAGGCC CAGAGGAGGT
153121 GATGGCTCTC TAACTGTTCC TAGTTCTGGG TGCTTCCTGT TCCTTGTGGA TTTCCCAACT
153181 CCTCACCTTT GTAAATACCC TCCTTTTTCA AACTCTATTC AGTTAGCTTT TATCAGCCTG
153241 ACTCACAGAA GTTTGGGGTT TCAATTCTA TTACCTGAAT GACCCAGGAA AACCCATGTT
153301 GAGAAATTAA AATGTTTACG GGGTGGTAAT ACCACTTAAG AGAAAAATA TCAATTGGAT
153361 TTTTAAAATT CCACCTATCT ATTGGTGTGA CACATCAACA AAAACATATA GAAAGATTGG
153421 AAGCTAAAAG ATAGATAATA TAGTCATATA CTGTTATAGT ATTATATCAA AAGATATTAA
153481 GTCAGAGCAT TATTAAGAAT GGAAGAAGGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC
153541 AGCACTTTGG GAGGCCAAGG CAGGCGGATC ACTTGAAGCC AGGAGTTCAA GACCAGCCTG
153601 CCCAACATGG CAAAACCTCG GCTCTACCAA AAATACAACA ATTAGCTGGG CATTGTGGCA
153661 CATGCCTGTA ATCCAGCTA CTTGGGAGGC TGAAGCACAA GAATCACTTG AACCGGGGAG
153721 GCAGAGGTTG CAGTGAGCTG AGATTTTCGCC ACTACACTAC AGCCTGGGTG ACAGAGAGAG
153781 ATTCTGTCTC AAAAAAAAAA AAAAAGAAAG AATGAAAGGA GTCACCTAAA AAAGATAACA
153841 CAATTTTAAA CATAAATGTA CTACATTATT AGTGAATTCA TGTTTAGAAT TGTGTTAATA
153901 TACAAAGCAA AAATGTAGA ATTATAGGAG AAATGGACAA ATCTACAATC ATCATGGGAT
153961 GTTTTTAACAT TCTTCTTTCC ATAATTGATA GATCAGGCAG ACCAAAAGAA AGAAATAAGG
154021 GAAGATACGG AAGGTCTGAA CAATCTAAGA AGCGCAATCT CATAGTCAAT ACATAAAGCT
154081 CAGCAATTGT TTAATAATAG TAAGCAGAGA ATATGCAGTT TTCTCAGGTA TAGATGGAAC
154141 ATGCACTAAC TGAGTAAATA CTAGGCAGAA AACAGTCTGA ACAAGTTTCA ATAAATCTGT
154201 ATTACACAGA TCATTTTCTC TAGCCTCAAT ATAAGATTAT AAACCAATAA TAAAAAGATG
154261 ACTAAAAAGA TTCTAAATAT TAGGAAATGT AAACACTAA TAAGTCATTA GAAGATGTAT
154321 AGAATGGAAC AATAATAAAA AGTTATTTAT AAAAATATAC AATGAAGCTA AAGCAGAATT
154381 TTAAGGAAAA TTTGTAGGCT TTAATGCTT ATCTTAGAAA AATTAAAAAG CTGAACATTA
154441 ATGAGCCAAG CATCTAATTT AAATTTTAAA AAGAACATAG AAAGCCAAAT ATAATTTTTT
154501 AAAAAGAAAA AATAGATATT AAACAATATA ACAGTGAAGT TAAAGAAAAC AAGAATGCAA
154561 TAAAGAGGAA AAACAAACAA AAAAAAAGGT AGCTTCTTTT AAAAGAAATT TAATAAAATA
154621 GACATACCTC CAATGAGATT TATCAAAGTA AGACAGAAGG CACAAATGGA ATGAATACAG
154681 AAACTTTTTA AATATTACAG AACTTTATAA TAAATCTTAT GCTACTAATA AAATTGAAAG
154741 TACTGATAAA ATTATTACTT CCTAGAAAAA ATATTTCTGA GTAAACTCA CTCAAAAAAC
154801 AAATAAAGCA TGGGCAGACC TAACATTAAA GAAATGAAAT CACTACTTTA AATTTTACCG
154861 ACAGATAATA AAACGTGCAT CTTTATCAAG CAAAAATGGA ACTTGTGAGT TTTATAGGAA
154921 ATTTAGAAGT CAAGGCATGA GTAATGCCAA TCTCATACCA AATCCTACAA AGAATAGAAA
154981 ATTTAGGCTC CCGCTTATAG ACATAGATAT AGAACTCCTG CACAAAAATA TATAAATAAC
155041 AAACCAATT TTATATTTGC AACTATACAT ATTATATGTG TATGTATTAT ATATGTTAAC
155101 ATATACATAT ATAATATGTA TAGCATATGT TCTACATATT ATATATGTAT AGTGTATGTA
155161 TTTTACAATA TATAAATGAA AACCCAATCT TTAATATATT CATCTAGATT GTCATATATG
155221 ACATATATAA TACATTACAT CAAAAATGTG TACAATAATC AGGCCAGGCA CAGTGAATCA
155281 TGCCTGTAAT CCCAGCACGT TGGGAGGCTG AGGCGGGTCA ATCACTTGAG TCCAAGAGTT
155341 TGAGACCAGC CTGGTCAATA TGGCCAAATT CCATCTCTAC AAAAAATATG AAAAAATTATC

Figure 1 (Page 48 of 73)

155401	CAGGCATTGT	GGTGACACC	AATAGTCCCA	GCTACTCGGG	AAGCTGAGGT	GAGAGGATCA
155461	CTTGAGCCTG	GGAGGTGGAG	ATTGCAGTGA	GTCGAGATTG	CGCCAGTGCA	CTCCAGCCTG
155521	GGTGGCAAAG	GGAGACCCCTG	TCTCAAAAAA	AAATTAAAAA	ATTAGCCAGG	TATGGTGGCC
155581	TGTTCCCTGT	GTCCCAGCAA	CTGGGGAGGC	TGAGGTGAGA	AGATCACTTT	AGCTCAGGTG
155641	GTGGAGCCAT	GATCGCACCA	CTGTACCACT	CGGCTTGGGC	AACAGAGTGA	GAGCCTGTCT
155701	CGAAAAACA	AATATATACA	CACAGTAATC	AATATATATA	TTATATGTAC	CAATCAATGC
155761	TTCAC'TTTTA	TATATAATAT	AGATTACATC	TTATTAGATA	TATAGTATTC	CTTCTCCATA
155821	GATAGATAGA	TACAGATATA	GACATAGTAT	CCTCTATCCA	TATTAGAGAG	AGGATACTAT
155881	ATATATCTAT	AGCATATAGA	GATGCTGTCT	CAAAAAAATT	TAAACATCAG	CCAGATGTGG
155941	TGGCCCATGC	CTGTAGTCCC	AGCTACTGGG	GAGGCTGAAA	TGAGAGGATT	GCCATTGATC
156001	CTCTCATTGG	TTGAGCCATA	ATCGCACTAC	TGCACCAC'TC	AGCCTGGGAG	ACAGAGGGAG
156061	ACCTGAGGTG	GAAGGATATA	GATATAGATA	TATAAAATAA	TATGTATAGA	GAGAATATAA
156121	TATATGTGTG	TATGTGTATA	TATATATATT	ATGAAGACAC	TGGGAGAGAA	TACTATATAT
156181	ATATGTGTGT	GTGTATATAT	ATATTATGAA	GACACTGGTG	GGATGGTTTC	ATTACCAATT
156241	GGACCAAGAG	TCCAGGTATG	GAGCCAACAT	GCAATGTTGT	TGTTGACTGA	GCTGGCAGAG
156301	CACTGGTCAT	AGTTACGGGA	AAAGAAGGTC	TCCAATGAGA	CATAC'TTAAC	AAAATATATG
156361	AACTTGCCAT	ATACGTGGAG	AGTTCTGGTG	TGTATATAGC	TCTCTCTCAC	CAACCTAGCA
156421	ATTGTCTTCA	TCATCATTAT	ATGTC'TATCA	GAGCAAAGAT	GACAGCTAAA	TTTTTTTTGTCT
156481	CCTTTCTTCT	TCTTTCTCTT	CCTTCCCTCT	CCCCACCTCT	TTCTCTTCCT	CCTCCTCCTT
156541	CTCTCTCTTT	CTTTTTTTTTT	TTGAGATGGA	GTCTTACTCT	GTGCTCAAG	CTGGAGTGCA
156601	GTGGCACAAAT	CTCAGCTCAC	TGCAACCTCT	GCCTTCTGGG	TTCAAGCAAT	TCTGCCTAAG
156661	CCTCCAGAGT	AGCTAGGACT	GCAAGTGCAC	ACCACCACAC	CTGGCTAATT	TTTGTATTTT
156721	TAGTAGAGAT	AGGGTTTCAC	AATGCTGGCC	AGGCTGGTCT	CAAACCTCTG	CCCTCAAGTG
156781	ATCCTCCTGC	CTCGGCCTCC	CAATGTGCTG	GGATTACAGG	CGTAAGCCAC	TGTACCCGGC
156841	CTCCTCCTTT	AATAGACAGG	GTCTAGCTCT	GTTGCCCAGG	CTGGGTACAG	TGGCGTGATC
156901	ATAGCTTACT	GCAGCCTCGA	ACTCCTGGGC	TCAGGAGATC	CTCCTGCCCT	AGTCTCCCCA
156961	GTAGCTGGAA	CTACAGGCAT	AGCACACGGG	GCTAATAAAA	TTAATTAGGT	GATAAAATTC
157021	ACTGCCCCACT	GATGACTAAG	CTCTTTGGAC	ATAAAAGACA	CAGACCTTGA	AGGAAAATGT
157081	GTCTACTTAA	TTTTTGAAACC	CTATTTATCA	AAAAACAGGA	TGAAAATGCA	AAATGCCATC
157141	CACATGCCAG	AAGATATCAG	CTATAATAAG	TTCCCATAAA	TCAATAAGGA	AAAGAACCCA
157201	ATAAAAAATTA	TTAAACCACA	GTAAATCATG	GGTAAATCAC	AGAGGCCTGA	AGGGCTAATG
157261	GACATACAAA	AAGAATCTCA	ATCTCACTAG	TGAAATCAGA	AAAGCACAAA	TTAAGTACAC
157321	AATTAGGTAC	CATTTTAAAT	CTGTAAGACT	GTCAAAATCA	TAAATTATAT	AAGTAAAGAC
157381	TCAGGGAGTT	TTGGAGGAGT	GAGAGCTCTT	ATATTGCTTG	TGGGGTAGAA	TTGGAACAAT
157441	TTCAAGATCT	GTAGTATCTG	GTAAAAATTAT	GATATGCATC	CCTCACACCA	GCATGTCACT
157501	CCAAGGTATC	TCCTTGGAGG	GAACATTTAC	GGGACACAAG	GAAGCATGGA	TAAGAATGTT
157561	CACAGTAGTA	TTGTCTGCAA	CAGCAACAAC	AACAAAAAAA	CCCAACTACA	CACAACTTCA
157621	ATGCCCCAGTC	CACAAGGCAA	TGGATTAAAT	AAACTTCAGG	CCGGAGATGG	TGGTTCATGC
157681	CTGTAATCCC	AACACTTTAG	AAGGCCGAGG	CGAGAGGACT	GCTTGAGCCC	AGGAGTTCAA
157741	GACCAGCCTG	AACAAAAATA	AGAGATAGTG	TTTCTACAAA	AAATTTTTAA	AAAATTAGCC
157801	AGACGTGGCA	GTGCTTGCC'T	GTGGTCCCAG	CTACTGGGGA	AGCTGACGTG	GGAGGATTGC
157861	TTAAGCCAG	GAATTTAAGG	CTGCAGGGAG	CCATGATGGG	GCCATTGCAC	TCCAGCCTGG
157921	GTGACAGAGT	GAGACCTTGT	CTAAAAGAGA	TAAGTAAATA	ACAAC'TTTC	ATTTTCTGCC
157981	ACATTGCAAA	ATGGTGAGAG	AGTGGTTTCT	AGACTCTAGA	CTCTTTCTAT	GACTACCTTC
158041	TAGTTATGAG	ATCCTACAAC	ACTCACCTAA	CCTCTCTGTG	TCATATTTCC	TCCTCTATAA
158101	AGCAAAAATG	CCCCATATAG	AGAGGACTGT	GATATAAAAC	AAGAACCAAG	AAAAGTAAAG
158161	CTTTTCTAAT	CTGTCACAGA	CTAAAGAGTG	CTCAGTATAT	GTGAGTCATT	ATTCC'TGGTG
158221	CTGGTAGGAG	TGTATGTTAC	AACTTTGAGT	CAAGTAATAT	GGTACCATAT	ATTAAGATTA
158281	ACAACAACCT	CGGCAATCCC	AGTTTGGGGT	ATGTTCCCAA	AAGAAATGAA	AGCACCAGGA
158341	TATAAGGATG	CATGGACTAG	AAAGTTATTG	TAGCAACATT	GTAATAACTA	AGTTCTAAAA
158401	ACAGCCTGAA	GCTCCACTAG	TAGGGATATG	TTTACATATA	TTTATTATAT	TCTTATGGAA
158461	TATTAGACAT	AAAAAGTAAC	GAGTAACATA	GAAGAGACAG	TGTATATATG	TTACGTTTGT
158521	ACAAACCTAG	GGAAAGATAT	AGATCACCCCT	ACCTAGAGAA	GTCAGATTGG	AGACGGGTGG
158581	GAAAAACCTT	GAAC'TTTCTC	CTTATATCCT	TTATATTGTT	TGACTGATTA	AAATGTATTT

Figure 1 (Page 49 of 73)

158641 GTTGCATCTG CTTGAAGGCA ATGTAAAATA AAATAAACAT ACATTTAAAA ATAAAAATAA
158701 AATTTATTCC TATCACTTTT GTAATAAAGC TGGGCACAGT GACTAACACT TGTAATCCTA
158761 GCACTTTGGG AGGCAGAGAC AGGCAGATCA CCTGAGGTCA GGGGTTTGAG ACCAGCCTGG
158821 CCAACATTGT GAAACCCCAT CTCTACTAAA AATACAAAA TCAGCCAGGC ATAGTGGTGC
158881 GTACCTGTAA TCCCACGCTA CCCGGGAGGC TGAGGCGCTG GAACCCAGGA GGCAGAGGCT
158941 GCAGTGAGCT GAGATTGCGG CACTGCAAGC CAGCCTGGGT AACAGCGAGA CTCCATCTCA
159001 AAAAAAATT TGAAAAAGA AAAATTTTAA TAAACAGTGT TTAAGAGGGG AGAAATATTT
159061 AGTTAAAAGA TAAGCCCAT TAAGAAATAG TTTCATTGA CCCGGAAGGC GGAGCTTGCA
159121 GTGAGCCGAG ATCGCACCAC TGCCTCCAG CCTGGGCGAC AGAGCGAGAC TCTGTCTCAA
159181 AAAAAAAAAA AAAGAAAGAA AGAAAGAAAG AAATAGTTTC ACTTGAACCA TATTATGATT
159241 CCTTCTGTAA AAGATGAGAG TAGGCAAATT GACTCAGTGA AATCCCAGCA AAACCTACAC
159301 AAAGTCTTGT TCTTCCTTCC TGTCATCTGT ATAGGATGAA ATACAGAGTG CTTTTGGGTT
159361 TTGTTGTGTG TTGTTGTGTG GGAACACAGG TCTATAATTC CTTTTCTGAA
159421 ATCCCTGGAA CAAAATGGGC TTTGCCATTG AAATTAGTTT AGAAGTTATA AAGGCAAAAA
159481 AATGCATATA CTCTAAAGTT CAACCCCATC ATGGCCTAAG GCAGAGCCCT GTAATCAAAT
159541 TCATCAATAT ATCTGCAGCA AAACATTTAT TCAAATTAAG TGGGATAAAT AAAGACTTTT
159601 AAATAGTCTC ATCTCAGTGC CGTTCAGGGT TGGCCACTGT GGAAGACAGA CTCAAGGGTG
159661 GCCTTCTATG ATTCCCTGCC TTTGGTGTTC ACACCTCGT AAAATTCCTT GTCTTTGAGT
159721 GTGAGCAGGG CTTATGAATT GCTTCTGACC AATAGGATAT GGCAAAGATG ATGGGATATA
159781 ATTTCTATGA TTACGTTTCA TTATGTAAGA CTCCATCTTG CTGGCAGATT TTCTCTAAAG
159841 AGTCTGTCTC CTGAGCTCTC TCTGAAGAAA TAACTGGCCA TGTTAGAAGC CCATGTGCAA
159901 AGAGCTGAGG GGTGGCCTGT AGAAGCTGTG GGCAACCTCC AGCCAACAGC CAGAAATAAC
159961 CAGGGCCAAA GTCCTGCAAC CATCAGGAAA GAAATCTGCT CTGCTACCTC AGTGAGCTTG
160021 GAAGTGGATT CTTCCCTTAGC CTAGCCTCCA GATAAGAACA CAGCCTGACC AACACCTTAA
160081 CTGCAGCCTT ATCAGACCCT AAGCAGCAGG CCCAACTAAG CTGTGCCCAAG ATTCCCTGAA
160141 CACAAAAATT GAGATAACAT ATCAGTGTG TATTAAGGTT CTAAATTATG GTAATTTGTT
160201 TGTACTAATA GATAACTAAT ATAACCACCA AATCATTTC GGTTAGGCCA GATTTTTGTA
160261 GCCAAATGAA TCATGATAAA ACTTTCCATT TTCAGGGGTT TTTTGTGATT TGTACTTACG
160321 GATACAAATT TGTGAAAGTA TAGTCAGCAC TGATTTAAAA AATCAAGGGA GCAGGAAACT
160381 CAGTAAATGG TTCTAACATT TTGGAATCTG TAAATTGGTT GTAACATTTG TCATCTGTGT
160441 TATCTAAGTC AAGTTCTTAA AATATGTGAA TGATAGGTTA TCATACTCAC CTACTTTTCT
160501 TGCATTGCTC TAAGAGTTGG CTGAGCTATT GATAATAAAC ACTATGATCA GATCTAATAC
160561 CATGATGTGC TATTATGATC ATGTGTCAGT CACAGGGCTA AGCACTTTGT ACATGTTGAT
160621 GCATTTAATT TTGATGATAA CTCAATGAAG TAGGAGCTGT TAATATTTTC ATTTTTCAGA
160681 GGGGGAAACC AAGTCACTTG GAGTAACATG GCTAATAAGT GAAAGAATAA GAATTTGAAA
160741 GGTTTGCACA GATAACCAGA ATGCAATGCT CATCACATTC ACTGAGCAGT GAATCATACT
160801 AACTAGAGAA AGTATGAAAG CTCTACTGAA ATTAACATAA CAACCTCTCT GGCTGTGAGC
160861 CTGCCAAGGG ACAGGTGGTA AACTTGGTTA CTGCATAAGG CCCCTTCTAT CCACAGTATT
160921 CAGGAATTCT TTAGTGAACA TACCTTGATG ACTCCTTAAC ATTTTCTTCA CATCGAAGTA
160981 AAGCTTGGAA ACATTGCACA TAGTATGAAG TTCCAAGGAG ACAGCCTCTG ATGTTTCCAG
161041 CTTACAGGCC CAACTCCTAG AATAAGCAGA GGCGAGAGAT TTCTTCAGAG GTGCATTCCA
161101 TTCATTTCTA TATACGCACA CCCCTCCCCT CCTGCATTCA AACAGGACTT ACCTGCTCAA
161161 AGTGTCATTC ACATTCTATA AAGAAACAAA AAGAAAAGGT GAGCATGGGA ACATCGGTAT
161221 TTCATGGGGC TTGTCATGCA GGGCTATTCT TCTTTGCTTT ACCCGAAGAA GTAAAGAGAG
161281 TTACCTTAGT CTTAGTCTTA GATATTGATG GATACTCAAA CAAAGTAATT CCCACCAGTC
161341 TTAGGTATTG ATGGATACCC AGATGGAATA ATTCCTACCA GCTTCTGGGA GATTACAGCAT
161401 GGCAGGATGT TTATCAACAT TTGCATCTAT TCTCATCCTT GCTGAAGTCT GAGGGCCAGG
161461 AGCTTTGTCC ATGCTCCCTC TGTAAGGACT AGCTTTTGGT GATCGGATTT CCTTCACAGT
161521 GAGCCAGAT TAGAGAACAC TTATCATAAA GGTCCTTAGT GGTGAATCTG TGCACAGCCC
161581 TGAGACTGGG CCACTGCCAC TAAGATGGTG GTAGCAGGTA TCACACAGTG GTAAAGCAAT
161641 CATGCTATAC ACTCAGCCTT ACAGTATAGT CACCAATCCT GTTAGTTAGA ACCAGAATTA
161701 ATGGCTCCAG ATGTTTATCT TCCTACAGAT AAAGCTGTAG ATTGTACCAT AACAGCTCTG
161761 GAGCAAGGGT TCTACAAGCA AATCAGGGAA AAGGTTATCA CTCATTTTGG CTGCCCCACT
161821 TCATCACCCA TCAGTCACCT AGTGGAGTAT TTCAGGAGAG AGTCAACAAC CAGGGTTCTC

Figure 1 (Page 50 of 73)

```

161881 TGCACATGGG CCAAGGAGGC AAACAGTGGT AAATGTTATC CCGTGGTTTC ATTTGGCCAA
161941 GCTGTGTTCC CTCAGAAGTT TATTTTCTA ATTGACATAA AGGTACCCTA TAAATTAGTG
162001 AAGGCCAGCC TGATGGCACT GATGTACATC TAAAAGAAAC ATTACTTTAT CTTCCCATGC
162061 TTCCTTACCA TTCTCCTTTA ATAGCACTAT AACATACCTT TTTTCCCTAC TCCAAGTACA
162121 CAGCCTCACC TGCAGCAATT TCTGGGCTGA GCCCTGACAT TTTTCCCTCA GTTCCAGGAT
162181 GTGGCTCTTG AGTTCATTGC TCTTCAGCCC CAGACCAGCC TCATAGTCCC TCAGTCTACT
162241 CAGAGTCTGT TGTTCCTCTT TCTCCAGCCT CCAGAGATAA GACTTCTCTT CCTCATGTAG
162301 GAAACACTGG AGATTCTTAA AGTCAGACCG GATTTTTTGT CTCTGAATCT GTACCTTCTC
162361 CTGGAGTCAA GAAAGTATGG TCAAAAGGTG GAAGTAAACC AAATGTCCAT CTATGGATGA
162421 ATGGATAAAC AAGAATGAAA GTCTGACACA CGCTACTACA TGACAAGCCT TGAAGACATT
162481 CAAGCAAAAT AAGCCAGAAA CAAAAGGGCA AATATTGTAA GACTTTGCTT ATACAAGGCA
162541 TCTGGAGTAG TTAAGTTCAT AGAGACAGAA AGTAAAATAG TGGTTACAAG GTGTTGGCAA
162601 GACCAGAAAA TGGACAGTTA TTGTTTAATG GGTAGTGAGT TTCAGTTTAG AAGCTGAAAG
162661 ATGAAACTGA GTTGCAGTTT GGAGATGGGA ATGGTGATGG TTGCACAACA ATGTAACAAT
162721 GTAAAAGCAC TTAATTCTAC TGAACATAT ACTTAAAAGT GGTTAAATGC TTAAGTGTTA
162781 TATATATTTT CACACAAACA CACACACACA CACAATCAGC CACTGGGACA TTATTTTCTC
162841 ATGAGTCAC TGAAGCTGGAA GAATGTCCCC AGTTTCCTGC TGCAGAGTCA TGTGTGGGAG
162901 GCAGGCACTC AGATGTGGAA GAGGTGCTT CAGATTCCTT ATAGTCACCC AATTAATTTT
162961 CTTGTTCTTC AGCCAAGACA CAGGAGAAAG CTGGGTTAGG AGTGCTAGAT AATTTAATTG
163021 TGAAACTAGG GCCAAGTTCA AACACTTTAT CAGTTACAAG GATAAAAAGA GGTTTTTACT
163081 TATGATTTAA GAAGTTAGAT TTCTGAGTTG GAGCGATTTT CTTGAAGTAA AAGCTTATAA
163141 TGAACATCAC CCAGACTGGA TTTTAAGACA ACCAGGCTGG TAAGAGGGTC CATAATTCTT
163201 GGCAGGGGGA GCTTTGAGTG TGACAGGCAT TTATTATGGT TAACTGAGAA ATACTGTTCT
163261 ACTACCCTAG GGTCACTCTA AGCATTCCCTA TGTGTAAGAC TGACAGAAAT CAAGTGAAAC
163321 TCTCATCTGA GGAGATGTAA AGTTGCAATT TCCATTAGTG CTGTCTAAAT TAATGCAGTG
163381 GGAGTGTTGA TTCAGGGCAA TTTGAATCTA TGTTCCTTGA TTGCAGTCTT CAAACTTGGC
163441 CCAAAATAAC TCTCTACTTA TCTTAAAAAA ATAAAAATTA AAAAATAAAA ATAAATTCAT
163501 ACAGTGTTTT GATGACTATG ATATAGAAAG AGGGTCTTTG ACTTAGGATG AGGTGGAATT
163561 TTTGTGTAGG AGACAGGTGC AGCTTTAACT CTGTATAGA CGGGTTTTCA TATAGTTAG
163621 TTACAATCAA GGTCTTCCCC ATTGCCCCAG ATCCTAGAAA TGGGGGAAGT AAGAGTGATC
163681 TCAGGAGCTC AAGAGCAACA TCCACAAACA AAGATCAGGG TAGAGGTTAG AGAGGACTCC
163741 TGAAAGAGAG AAAATTGGTA ATCAGCTTGT GGGATTTTAC TGCAAGCTAG TGAATTATAT
163801 AAATATAAAG ATTGGTGCAA AAGTAATTGT GGTTTTTGCC TTTACTTTAA TGGCAAAGAC
163861 CGCAATTACT TTTGCACAAA CCTAAATATT TCCATAAAAG AATGTGGCTC TGATAATGTG
163921 GAGGTTAGTC AGCCACGGAA ATAATCTGAA AGTTTGAGT TGCAAGTG TGAGTTGTTG
163981 CATTACTTGT GATGTACTTA TAAATCAAGT ATAGGCCGGG TGCAGTGGCT CACGCCTGTA
164041 ATCCCAGCAC TTTGGGAGGC TGAGGTGGGT GAATCACGAG GTCAGGAGAT CAAGACCATC
164101 CTGGCCAACA TGGTGAAACC CCGTCTCTAC TAAAATACAA AAAATTAGCC AGGCATGGTA
164161 GCACATGCCT GTAATCCCAG CTAATCAAGA GGCTGAGGCA GGGGAATTGC TTGAACCCGG
164221 GAGGTGGACA TTGCAGTGAG CTGAGATCGC ACCACTACAC TCCAGCAAGA CTCCATCTCA
164281 AAAAAAGTAA ATAATTTAAA AATAAATAAA TAAATAAAGT ATATTTCTTT CATCAGCTTC
164341 ATGAGCTAGA GTAGTATGAA TTTCAATCTG GAGTGATCCT GTTTTCTAAG TGTTCACAAA
164401 GCTTGGTTTC TGTACCTGTA AAGTTGAGAG CCAGATGCTC CACTGTGGTA AAAGTGCCAG
164461 GGTAAATGAGT TGAGGCCTGC AAACCAGGTT TATTTTGACG TATTTAAAGT TTGAGACCCA
164521 CTCGATGCTT TTTCTAGGTA AATAGTCATA CTAATCTGCT TTCTTCTGAC TGAAGTATCA
164581 GGAATCCCAG CCAACTACAG TTTAAAGATG GAAAGATTGG TGCTAAATAC TCATGGATGT
164641 AAACCTGGAA CCAGGGGCAT AAGTACAAAT AATGGTTTCT TCCTTGGGTT TCATTTTCTC
164701 AATCTGGTTT AGTGAGAATA AATCCTCATT GTGCTTTTCC TCAATCATCC CCTATGCCTA
164761 AGCTCTAGAA TGGAAAATAG CTTGAGATCA ATGAAGTCAG ATTCTTACTT TCCATTTAGT
164821 TATTCGCATT GCTGTGGACA GCTTCTGCTC CGTACATCTG TCTTCAAGTT GCTTCAGTTT
164881 TGTCACAGCT TTCTGGAGCT TTTCTGAAG GAAAAATTTG ATAAGTGAAG CCTATTCAAT
164941 TTGACTCTTC ATTAGGGACC TAGGGGGAAT CCCAATCTTC TAAGATATAT TTGAATAATA
165001 GTGAATATTT ATAGAGTCCCT CATGTTTTTT TGCTAGAGAG CATGCTAAAG GCTATATGTG
165061 CAGGAACATA CTGATCCCCCT TGGCAACCCCT GAATAGTTGG TAGGATTTTA AACTTCATTT

```

Figure 1 (Page 51 of 73)


```

168361 GGCTCACTGC ACCTCCGCCT CCCGGGTTCA AGCGATTCTC CTGCCCTCAGC CTCCCCGAGTA
168421 GTAGCTGGGT CTACAGGTGT GCACCACTAC GCCCAGCTAA TTTTGTATT TTTAGTAGAG
168481 ATGGGGTTTC ACCATGTTGG TTGGCTCGAT CTCTTGACCT TGTGATCCAC CCGCCTCAGC
168541 CTCCCAAAGT GCCAGGATTA CAGGCATGAG CCACCGTGCC CAGCCTCTTT TTCTTTTCTT
168601 ATAAGACAAG TTCTCGCTCT CTGCCCAGG CTGTAGTGGA GGGCAGTGGC ATGACCACAG
168661 CTCACATGAG CCTCGACCTC CTGGGTTTAA GCAATCCTCC TGCCTCACCC TGGCAGAGTG
168721 GCTGGGACTA CAGGTATGTG CCACCATGTC CAGCTAAAGT CTTCTCTCCA GAAAGAAGAA
168781 ATGCATTGGA ATTTAGAGGA TACACAAACA TCTAGCTGTA TAGCTAATAC AGTAGCCACT
168841 ATCATGAGTA GGAATTTAAA TTAACTTAA TAAAAATTAA AATGAAAAA TTCAGTTTTT
168901 CTGTTCCAGT TGCCACATTT TGATTGCTTA ATAGTTGCAT GTGACTAGTG GCTACATAAC
168961 AGCCTCAATA TACAACATTC TGTATCACA GAAAGTTACC TTGGACCAAG TGCTGGGAGA
169021 AGCAATGCAG GCTTCCTCAC AAAAGCTGTA AAAGAGAGAA CTCAGGGAGT GTGAAACTCT
169081 TTCTTATCTT AGTTAACTTC AAGAATAATT GTTACCAGGC CAGCACGGTG GCTCACGCCCT
169141 GTAATCCTAG CACTTTGGGA AGCCGAGGCG GGCAGATCAC CTGAGGTCAG GAGTTTGAGA
169201 CCAGCCTGAC CAACATGGCA AAACCTCATC TCTACTAAAA ATACAAAAAG TTAGCTAGAT
169261 GTGGTGGTGC ACACCTGTAA TCCCAGCTGC TCAGGAGGCT GAGGAAGGAG AATGACTTGA
169321 GCTCCGGAGG GGGAGGTTGC AGTGAGCCCA GATTACACCA CTGCACTCCA GCCTGGGTGA
169381 AAGAGCGAGA ATCTGTCTTA AAAAAAAAAA AAAGAATAAT TGGTACCAGA ATTACTCTTT
169441 GTAATTAGTA GTAACACTTA TGCAATTGGG TGATCTGTGA CAGATTCCAT TGAAGGAGTA
169501 TGGGGAGCTT CACCCCAATA TATGACTCCC TGGTATAATG AGTATTTTGA ATTTAAAGGCC
169561 CTTAGAGATC AGCAGATGCT GGAAGAGACT TTTCCCTAT CTACATAAAG ACCAGTCACA
169621 CTAGACAAGA AGAACAATTG TTTTTCCTTC CAACCCCTAT TATCTCATTT TGTACTGAAG
169681 AAAAGAGGAC TAAGAATGTA ACCAGACCTA ATCAGACACT TTCACAAAT AATGTCTGTC
169741 TCTCAGGCTC ATTCATTTTC CAAAGAGAAC CATTTACAAG TTAACTCTG TTCCTCCATT
169801 CATTATCCTT CCCAAATATT CATTTATCTT CCCTAGTAAT CATTTACTGC CCCTCAAAGA
169861 ATTACCTATA TTCTCCTGAT ATCACCTTTC CCCTCTGAAA TAAATATGTA TACATGTATA
169921 AACGTTATAC ATACATATTT ATACAGTATA CATACATATT TATACATACA TACATATGCA
169981 TACATATTTA TATTTATGTA TTTATACATA AGTATTTATA AATAAGGCTA TATAAGTATC
170041 TACCCCATTT GGCAGAGGGG GTAATCACTC TGTGATTCTA GCCCATGTAC TTGTTAATAA
170101 ATTTGTATGC CTTTCTCCA ATTAGCCTGC CTTTGTGAG TCGATTTTTC AGTGAACCTC
170161 AGAAGGCAAA GGGGAAGTGT TCCCTTGGCT CCTACACCAT CATGACAATA AAATTTGACT
170221 CCACCTCGAC CCCCCCATC CCCCACAAAG AACACAACC AACACTGGTT AATAAGTTCG
170281 GTTGTTTTTT GTTGTGTTT TTGTTGTTGT TGTTTTGTGCT TTCAGGAGCA GAGGTATAAT
170341 AGGCAAAAGA AAGAGAAAGG AGAATAGTGA ATACCTCTTC TGCAGAGAGG GGTGCCTAAG
170401 TGGGACTTCC CTGGCTAATA ACGTCTTGCT AGAGACCCAA CCAGGAGGAT AATGGAAGCA
170461 ATCAAGGCAA CCAGAACAAC CAGAAGAACC GGTTTATCCT TTTTGTGCCC TCTCCCTAAA
170521 CTGAGGGAAT AAGAATTGGA AAGAAGGCTG CAGAGCAGAG GGTTTGCTCC TGAGGAGCAG
170581 TTATTTCTAT GGGATCAGAG CTCCTGCAGA ACTGGGGAGT TTACTTTTAC TATCTCTTCT
170641 CCAGGACAGG ACCTATCTCA AGAGACATGT TCAGAGTGAT TGCAACATAA AGAGTTTGCA
170701 GACCCAAGGA GGTAGGGAAG GCAGAAAGAA GATGGGGGAG GCCAGGGATA GGCAACAGAG
170761 GAGTGACCAG GAGCGAAAAA GCCTGCCTCT TCTGAGAACCT TAGCTGGGCT CTCCCTGTAC
170821 CCCCAGTCCC TCCCCCCCCG CCGCCCCCAC ACCCCTACTC CTGGGAGCTC CTCTAGGACA
170881 GGGGAGAGT CAGGAGGAAG TTTGAAGAGT GCCTAGAATA AAAACAGTA ATTTAACTAC
170941 AATTACCGGG TAGGCTGTTT TCCTCTCACA ATTTGATCAG TCTCTTGAAG CCACACAGAA
171001 TTTCTTCTGA AGACGTGTAT TCCTTGGCAG GCTATTTCTT CCAGTGATAC ACCAGGCCCC
171061 TCTCTGTGG GGTCACTGCT CTCTGGGGA GATGGGGCTC CCCTCCTTCC AAGGCTCCAG
171121 GGTTCCTGTC CTGGGCCCCA CTCATCTAAG TTCTGAATCT TCTGAGATTT GGTGTAAAGT
171181 CTGGTGAAAG AAAGAGCAGG AAAGAGGTGA GAGCTGTAAA ACAAAGAAAG TCCTGACCAT
171241 TTTCAGAGTT GGAGGGGCCC TGCTGTCACG AAATATATTC CCCACCCAC TTGCCATCAG
171301 TACACACTCA CATATCCACT GAGAAAACCT TAGCCTGGAC CTTTTCCGTA ACCTTCACTG
171361 CTCAGACACT TACATATTCG CTGCTAGTCC CCTCTGTTGC TGCCACTTCC TGGGTCAGGA
171421 AGTTAACTCA GACCGGATTA AACTGAGAAG TGAACTACT GTGGGAGGCG GGGCTCATAA
171481 GATTTAGGAG AAAACTAGTG ACGTTGTTCA TATCATTTGC ACTCCGCCTC TCCGGTAAAG
171541 GAGGGGGAAG CGTAGGAAGA AAATATCTTT CTTTACAGC AATAAAAAGA AGGAACCAAT

```

Figure 1 (Page 53 of 73)

171601 TAATAACCCCT GTAAACTATC ATGTGACCCC AACACAGAGT ATCTAAAAAC AGGAAGCCTG
171661 CAGAGGTTCA GTTCACAGAC TCTGATTTGA GATCTTTCTA CTTTTGCCAC CAACTCCCTT
171721 GGGAGTCCTT AAGCCTTCCT AGCTGATGTT ACTTCTTTTG CTATTTATGG GTTGCTTG
171781 GTTCTATAAC TGCTCTGAAG GGTGTGGTGG AAAAAGGGGT GGTAACAGCA GTAGGACTCA
171841 TTGGCATCAC AAAATTCATC TGAGTCAGCT TTCTATTCTT CTCTGTCCCG TTCTGTGTCT
171901 TGTTTTTCTC CTTGCTGTCC TTCTGCAGGA CTCAGATCTT CTTCAATAGC GAGGGTCAGC
171961 CAGGATAGAA AATGGGAGTC ACTAGTGGCC CAGCAGTGAG TGCCCCCAGC TTAGAGCTGT
172021 GTGGGATCCC TGGGACCATC ACTCTGCTTT GTGCTTTGTG GAGAAAAGGC TGTGGGGTCC
172081 AGGGTCAAGT CCTTAATGAC TTAGCTCCAG CTTCTCCACT TCAAAATGAA AGGAAAAGTA
172141 CTATCACCAC CCGTTAGAAT TATTATTTCA TGGGGAAAAA AGATGGATTA CTATCTCACA
172201 ATAAGAGCTT GTCACATTTA TAAGTCTCAG GTGTAAGAGG CATTTATGAT AACACATAA
172261 TAAATGCTGG CTTAAGTAGA TGCAGTGGTC CAAGGGAACC AGTAAGGGGA GCTCAGGACA
172321 CAGGTGGGAG GAGAAATTAA ACTTGAATTC TGGGAGCCAC TGGCCTGTCT GGGCCCTGG
172381 CCTGCCTGCT GACCCTGATA GCCAATGGAA CATGGAGTTT GGCCAGCTG CAATCCCCT
172441 GGTCCAATA CTCAAAATAA AGGCAAGATT GGGAAACACG TTCTTTCTT CCTATACCAA
172501 GCAGAAGACT CTTCAGCACT GCACCCTCCT GGGTGCCTAC AGAGCCTTCT GTTGTTTTGC
172561 CACCTACGAT TCATCATGCC CTGGCATGAT GGTTCAGAC CCCATGCATA GCATGGGACA
172621 TTCTACTCCT GAGGCAACCA GCACACAGAG AGAGGAGAAA GAATGAGCCC CTGAATCCTT
172681 GGTCCACGA TGAGTCCTTG CAGATATCTA CAACTTTTCT TGTGTGGAT GTGACTCTGT
172741 ACCCAGGCAT GGCTCATTCC AGATCTGTCC TATTGTCAGA GGTGTTCAA CCAGAATGAC
172801 TCCATTTTGA ATGGGGGCTA GGTAATAA GGCTGAGACC TACTGGGCTG CATTCCCAGG
172861 AAGTTAGGCA TTGTAAGTCA CAGGATGAAA TAGGCAGTTG GCACAAGACA CAGGTCATAA
172921 AGATCTTGCT GATAAACAG GTTGCAGTAA AGAAGCTGAC CAAAACCCAC CAAAATCAAG
172981 ATGGCAACAA GAGTGGCCTC TAGTCATTCT CATTGCTCAT TATACACGAA TTATAATGTG
173041 TTAGCAAGTT AGAAGGCATT CCCACCAGCT CCATAGTGGT TTATAAATAC CATGGCGATG
173101 TCAGGAAGCT ACCCTATATA GTCTAAAAAG GGGAGGAACG CTTGGTTCTG GGAATTGCC
173161 ACATCTTTCC CAGAAAACAT ATGAATAATC CACTCCTTGT TTAGTACATA ATCAAGAAAT
173221 AACTGTAAGT ATCTGTATTA GTCCATTTTC ACCTGCTGA TCCAGACATA CCTGAGACTG
173281 AGTAATTTAT ACCAGGAAAA AATGTTTCAT GCTCTTACAG TCCCACGTGT CTGGGGAGAC
173341 CTCACAACCA CAGCAGAAGG CAAGGAGGAG CAAGTCAGGT CTTACATGGA TGGCAGCAGG
173401 CAAAGAGCTT GTGCAGGGAA ATTCTTTTCT ATAAAACCAT CAGGTCTCAT GAACTTAT
173461 GACTATCATG AGAACAGCAG TATAAATTAC TCAGGGAAAG ACCTGCCCCC ATGATTTCAAT
173521 TACCTCCAC CAGGTCCCTC CCACAATATG TGGGAATTTA AGATGAGAGT TAGGTGGGGA
173581 CACAGCCAAA CCATATCAGT ATCCTTAGTC CAGAAGCTGA TGCTCTGCCT GTAGAGTAGC
173641 CGTTCTTTTA TTCCTTTACT TTCTTGCTTT CACTTTACTG TGTAGACTTG CCCCAAATTC
173701 TTTCTCACAC GAGATCTAAG AACCTTCTCT TAGGGTCTGG GTTGGGACCC CCTTTCTGGT
173761 AACACTATCA AAGGATCAGG AAAAGGAAGC TAGTGAATGC TAAAAAGGAA ACAAACTACC
173821 ATTACCAATA ATAACAGCAA GACAAAAGCA AAACGGATTG TGACAGCTGT CCCATCTCAC
173881 ACCTGTTTCC CATTGCAGGA AGGAGGGGCT GGTTCATGCA CAGAGTGGCC AATATTAGAA
173941 GCAGAGATGG GGTGCAGATG AGACTTCAGG AATATGTTGA CAAAGGCAGG CCTAGGGAGA
174001 AATCAACCTG AACTATCCCC AAGGAGGAAT GCATTATCTC TAATATGTAA AGTTAGGCTT
174061 GATCCTGTGA TTATGGGATA TAGGAGTCCA AAGACTCACA ATGGGAAGTA GGTCACTAGA
174121 GTCTCCTTCA GAAGCTCTGT ACTGTGTGTT CCCACTGTGG GCAAGAGTCA GCACTCAGCT
174181 ATTCCTAGAA TGCCCTTCCCT CAACTCCTTC AGATTTTGCC TCTCAACTAA CCCTATCCTG
174241 ACCACTTGTT AGCAAGTGTA CCCCTCTCTC CCTCCCAAAC ATTTTCAAAT CTATTTTGT
174301 CCCATGGCAC TTATCACTGA ATATTTTACT AATTTATTTT GTTTAGTGTG TGCTTCCCTC
174361 ATGAGAATGC AAAGGGATGG ATTTTTTTCA ATATTGTTCA CTGATGAATC CCAGTAACTA
174421 GAATATTTCT AAGCATAGTG ATGTGCATTA AATCAAAGAG TAACCTTCTG AATTGCACTA
174481 AACACACATC ACAAGAGGTG TGTGCACATA TGTGCATGAT GCACGTAGTG TGGTGTGGGT
174541 GTTGTGTGGG GTATGTGGTA CTGTGTGTGC TGTGTGTGGT ATGTGATACA TAGTTTGTGT
174601 TAGTGTGATG CATGTGATGT GGTATGTGTG TGCGTGTCCA TACATATTAG GGGTGGCGGG
174661 GATGTTAATA TGTCAAATGG TACTAGAAAG TATCAGAACT CATGGTGCTT ACTGGTTTCC
174721 CAGAGAGCTG CTTCTCTCCC ACCTGTAGGA TATACTGATG GTTTGGACAG AGAAGAAATA
174781 AAAAGAAGGC TGTGACCTAC TGGGCTGAGG AAATAAAAAA GAAAGTAAAA GAAGAGCTGG

Figure 1 (Page 54 of 73)

174841 GAAAAGAGAG TGGAGGGGCC AAGGGAAATT TCCCCTTTGG CTTCTGGGGA AACTTTGCTG
174901 AAAAATCAAC TCACAAATTT ATTAACATGT ACACAGGGAG AACCATAGAA TGATTATCCA
174961 CTTCCCAAGA GGGCTTAAAA GCTTATATAT TATCCTGGCA AAACAGATTA TGGGAGGGGA
175021 AGAAGAGAAA CTCTGTTGAT GGGATTACTG TTGCGGATTT TTGCTCCTTC GCTCAGCTAG
175081 GTCCGGGTTT TTGTCTCACA GCCAGGAAGA ATTAGGCATG CAGCCATCAA AGAATGAGTG
175141 GAGTAGAATT TATTAAGTGA AAGGAAAGCT CTCAGCAAAG ACAAGGGTCC TGAAAGCAGA
175201 TTTCTGGTTT GCTCTTCACA GTTGAATACT AGGGCTTAAG ACTCAAATTC CTGACAACCTC
175261 CACCCTGTCC TACCAGTGCA TGCAGGCCTT TAGACTGAGC TACTCCATAT TGATTAATTTT
175321 CCTGAACGTG GCATGTGTTA AGGAAAGGAA TCATCCACTG CAGGCATGTT TAGGCAAGCC
175381 CCCTGTGCAA GTTCCCTTAT CTGCACAAAA CATCCGGTGT AAGCACTTGT GGGGCAGGTC
175441 AGAGGTTCTC TGGGTACCAT TCCCTTACTG TCTGCCTAAA GCAAGCTGGC CAACTCCTTTT
175501 CATTACTAGG GAGAGTAAGT AGATCAGGA ACAGAGATTA ACTTGAACAT TATCTTGTGA
175561 AAGTCCGTTT GGGCATGGTT ACATTCTTGG TCTTACAGGA AGGGTAAATA AAAATAATTG
175621 CTCTTTTTTG TGGGTCTGGA TCTTAGGTAG ATAAAGAAAC TTTAATTCCA CGATGTGTTT
175681 TGGTAGGGAT AGTTGGTGGC AGGGATGTCA GAGAGACTTT GAGGCTTCTT CAGTTCAATA
175741 TGACCAAGGG CCATATATTA GGGTATCAAT TTCTGAGCCC CAACAAGAGC TTAGAGAGA
175801 TGTGATAGCA TCACAGTGTG AAAGCAATTT TTTGTTTGT TTTAGAGACA GGCTCTTGCA
175861 CTGTCACCCT GGCTGAAGTA CAATGGTACG ATCACAGCTC ACTGTAATCT TGAAGTGGGT
175921 TCAAATGATC CTCCCATCTA AGCATTTCOA AGTGTGTTGGG TTACAGGCAT GAGCCACGGT
175981 ACCCAGCCTG AAAGTGCACC CACTTTCTGA TAACTTTTC AAATGACTAA AGGGGAGAGA
176041 GTAAGCACTA CTCAGAGGTA GGAAGAAAGG ACACAGGATT ATAGGATTAA AACAACAACC
176101 ACCAAAAAAA ACCAGACCGG TGTGGTGGCT CACACCTGTA ATCACAGCAC TTGGGGAGGC
176161 TGAGGTGGGG GGAGTCAC TGAGGCCAGGA GTTCGAGACG AGCCTGGCCA ACATAGCAAG
176221 ATGCTGTCTC TATTAATAAAA AAAAATACC TGCCCTGAGC TAATCAGAA CATGGACCCT
176281 GACAAAGGAT GTCCCAAAGT AAGTCTTAGC ATTTTCTTTT TTTTCTTGAG ACAGTCTCGC
176341 TGTGTTGGCC AGGCTGAAGT TCAGTGGCGT GATCTCGGCT CACTGCAACA GCTGCCTCCC
176401 AGGCTCAAGC AATTCTCCCT GCCTTCAGCC TCCCAAGTAG CTGGGATTAC AGATGCCCCAC
176461 CACCACGCCT GGCTAATTTT TGTTTTTTTT AATAGAGATG GGGTTTTGCC ATGTTAACCA
176521 GGCAGGTCTT GAACCTCTGA CCTCAAGTGA TCTGCCCACC TTGGCCCCCTC CATAGTGCTG
176581 GGATTACAGG CGTGAGTCAC TGCACCCGGC AAAGTCTTAG CATTCTTTAC AAACAGTTTG
176641 TACCCGTATC TCTAAAAGGG AGTAGTGAAT TTCACCCCAA AATGTGGCTT CCTGATATAA
176701 TGAGTATTTT GAATGAAAAA CTCTTAGAGA TCAACAGACA CTAAAGAGAC TTTTCCCTAG
176761 GTACATAAAA ATAGGATGGC CCCACCAGCG AGAACAATTG TTCTTTTCTC CTTCTCTGTT
176821 ATCTCATTGT GCATTATAGG AAAGACCAAG AATGTAACCA CACCTGAACA GACCCTTTTA
176881 TAAGATAATC AGTCTCTAAG CATCATTTAA ATTCCAAGGA GAACTATTTA CAAATTTATC
176941 TGTCTTTTGA TCCAAATAGT CTCTCCTGGT AGTTACATAT TGCCCCCTCA CAGAATTCCT
177001 CTTCTTCTGT TTCCCATAAC CTATTTTGCA AGGATCAAGC CCCTGTTATT TCTTCAACTT
177061 CAAGGTGGCA TATAAGCTTC TAAATCCAC TGGGATATTG GTACTATGTG CATGAGGAGA
177121 ACCACAGAGT AATTAAATTG TAAAGCCTTT TATCTTATGA ATCTGCCTTT TTTTGTGTTT
177181 ATTTTTCAGC AAAACTTCCA AGGGCAAAGG TATAAAACAA AAATAAAATT CTAAAGCCCC
177241 CCAACCATCT GAATAGACTT TCTCTTCAGT CAGGCTTCTT AAAATGTAAC CTGAAAGACT
177301 GGCTCAGGCC ATTAAGGGAA GTGGGGGTG AACATGCCTC ATTATTCTCT TCTGGCATT
177361 ACATCAACAC AGCTTTTAAG TCTGATAAGA AACATTTTAC AACCTATTCT CTCTGAAGCC
177421 TGCTAGCTAA AAAGTTCATC CCATAGTACA ACTTTGGTCT TCACAACCTG TTATCACAAC
177481 CTAGTGCTCC TTTCTATTAA TCCCAAATCT TTATACAAAC TCAACCAATT GTCATCACCT
177541 CCACCCCACT CCTCCGCTGC TTCCAGTTGT CCCGCCCTC TGGACCAAAC CAGTGTACAT
177601 TTCTTAAACG TATTTGATTG ATGTCCCATG CCTCCCTAAA ATGTATAAAG CCAAGGTGCA
177661 TCCCAACCAC CTTGAGCGCT TGTCTCAGG ACCTCCTGAG GGCTGTGTCA TGGGCCATGG
177721 TCACTCAAAT TTGGCTCAGA ATAAATCTCT TCAAATGTTT TACAGAGTTT GGCTCTTGTC
177781 ATGACACAGA TGAAGCTTC ACTGAAGCCT GCTCTGGAAG TGAGTGGGGG TTTTGCAAGG
177841 ATAATTTTCC CCGGATAGCC CCAGAAGCAG CTAGTAATAA TACACTTAAA GGTAGCTAAA
177901 ATGCATTGAA CACTTGTTTT GTGCCAGACC TATGTCAACA TTTGCTTTGT GCCAGGCTTA
177961 TGCCAGTACT CCTGATTTGT TAATACATTC TAAATAAAAA TTCTGGAGTT TCAAATATAA
178021 TAACTGAAAA ACAGAAAATA AATAAAAATA TATAATAACT GAAATAAAAA TTTACTAAGG

Figure 1 (Page 55 of 73)


```

178081 CTGGGGATGG TGGCTCACTC ACACCTGTAA TCCTGTTACC GGAAAGGGGT CCGTCCAGAT
178141 CCAGACCCCA AGAGAGGGTT CTTGGATCTC ACACAAGAAA GAATTCGGGC GAGTCTGTAA
178201 AGTGAAAGCA AGTTTATTAA GAAAGTAGAG GAATAAAAGA ACGGCTACTC CATAGGCAGA
178261 GCAGCTCTGA GGGCTGCTGG TCGCTCATTT TTATGGTTAT TTCTTGATTA TGTGCTAAAC
178321 AAGGGGTGGA TAATTCATGC CTCCATTTTT TAGACCATAT AAAGTAACTT CCTGACGTTG
178381 CCATGGCATT CGTAAACTGT CGTGGCGCTG GTATGAGCAT AGCAGTGAGG ACGACCAGAG
178441 GTCACCTCTCA TCGCCATCTT GGATTTGGTG GGGAGCAGTG AGGATGACCA GAGGTCACCTC
178501 TCATCGCCAT CTTGGATTTG GTGGGGTTTA GCCAGCTTCT TTACTTTTTTT CTTTTTTTTTT
178561 TTTGCCCAGG CTGGAGTGCA GTGGCACGAT CTCAGCTCAC TGAAACCTCC AATTTCTGAG
178621 TTCAAGCGAT TCTCGTGCCT CAGCCTCCCA AGTAGCTGGG ATTACAGGCA TGTGCCACCA
178681 CACCCAGCTA ATTTTTTATA TTTTAAATAG AGACCGGGTT TCGCCATGTT GCCTACGCTG
178741 ATCTCCAACT CCTGCGCTCA AGCCATCCAG CCACCTTAGC CTCCCAAAGT GCTGGGCTTA
178801 TAGGTGTGAG CCACCCACC TGGCCTAGCC GGCTTCTTTA CTGCAACCTG TTTTATCAGC
178861 AAGGTCTTTA TGACCTGTAT TTTGTGCCCA CTGCCTGCCT CATCCTGTGG CTTACAATGC
178921 CTAACCTACA GGGAATGCAG CCCAGCAGGA CTCAGCCTTA TTTCACCCAG CTCCTATTCA
178981 AGATGGAGTC TTTCTTGTTT AAATACCTCT GACAAGCCCA ACACTTTGGG AGGATGACAC
179041 AGGAGGATTG CTTTAGCCTA GGAGCTCAAG ACCAGCCTGG GCAACACAGT GAGACCCCAT
179101 CTCTAAAAAA AAAAATACAA AAAAATTAGC CAGGCATGAT GGTGTGTGCC TGTAGTCCCT
179161 GCTACTCAGG AGGCTGAAGT GGAAGATGG CTTCAGCCCA GGAATTCAAG GCTGCATTGT
179221 CAGAGGCATT TGAACCAGAA TGACTCTATC TTGAATAGGC GCTGGATAAA ATAAGGCTGA
179281 CACCTGCTAG GCTGCATTTT CAGTATGTTA GGCATTCTTA GTCACAGGAT GAGATAGGAA
179341 GTCAGCACAA GGTACACATC ACAAAGACCT TGCTGATAAA ATAGGTTGTG GTAAAGAAGT
179401 TGGCCAAAAC CCATCAAAAC CAACATGGCC ACCAAAGGGA CCTCTGGTTG TCTTCACTGC
179461 TCATTATATG TTAATTATAA TGTATTAACA TGCTAAAAGA CACTCCTACC AGCATCATGA
179521 CAGCTTACAA ATACTGCGGC AATATCTGGA CTTTACCTTA TATGGTCTAA AAGGTGGAGG
179581 AACCCTCAAT TTTGGGAATT GTCCACCCCT TTTTGGGAAT GCTCATGAAT AATCCACCCC
179641 TTGTTTAGCA CATAATCCAG AAATAACTAT AAGTATGCTT ATTTGAGCAG ACCACGCTGC
179701 TGTTCCTGCT ACAGAGTAGC CATCTTTTTA TTTCTTACT TTCTTAATAA ACCTGCTTTC
179761 ACTTTACTGT ATGGACTTGC CCTAAATCTT TTCTTGTTG AGATCCAAGA ACCCTCTCTT
179821 GGGGTCTGGA TCAAGACCCC TTCTGGTAA CATCTTCTG GTGACCACGA AGGGACAATA
179881 CTGAGGAGAC TCTGAAGCCA AAGGAAACAG ACTACAGCAC CAACTGGCTG ACTTTGGGTA
179941 AGTGGTGGAG TCCCCGGGTA AAGGATAGGA TTGGGTTAGA GGTGCAACTT AGGGGAGATA
180001 GGGTCTCTCC TAAGACAGAG AGGGTTTCAG TCCGCTCTTA ATAAAGGGCA AGAAGCTTG
180061 ACCGAACCTG GGTTCGAGAC CCAACTTAGG AAGGCTACAG TCCTTAAGAT TTAAGGGGTT
180121 AGAGGCCCTC CTCAGTAAAG TCTCTCTTGG TTAACAAACG ATTTAGCATT AGGGGATGTT
180181 AACTGCTATT CTGTTTGAT TAATCTTCCC TGTGCTCTTT GCTGACAGCT ATGGGTGACA
180241 GGATTAGGCA TGTACAGGAT CACGGGACAT TGGGAACCTT TCTTCTCTCC AAAAGGGGAA
180301 GCTTGACAGC TGATAGGACT GTTGGAAAAG ATCCCTTTGC TATGACAAGC AGCCGCCTGA
180361 ACTTTTGATT CAGTGTGCT GCAATGGGTG GGTCTTTCTC TGGCCTCTGT GAACTCCTCA
180421 CCTTCCCCAT CTCACCACAG GCAATGCTTT TCTCCCTTTC TCTCTTTTCT CTTTTCTGTC
180481 TTTCTGTTA CTTGAGACAA CCATCTTGCC CAGAGACCAT ATGTTGAAAC TCCTGGTCAG
180541 AAGTTTGATT AAAGATGAAA GGGCCTATCT GGGGGCAAGT TTGAGCCTTC CCAGTTAGAT
180601 ATTGGGTGCT AAGTGGAGTG GCCAATGTCT ATGTTTTGTC ACATGTATAT TGCTCTGGCT
180661 GAAATGGAAA ACGTTAATTT GGTACTTTA TGTGGCCATT GGGCAGCATC TTACAAAAGT
180721 GAGAGACATT TATTTGCCTG TGGTTCATG AAACAGAAAA AAGTTGGTTT TCTTTTGTGT
180781 CGTAGCTTGG ACCCAAGGEC TTTGCAGTGA GCAAGGTTGC TAGTGCTGCT CAGTGAAAGA
180841 GAACCCAGAA ACCTGGCATG CCAGCAAAAG GGTAAAGATT TCTTACCAGT CAGGCTTCTG
180901 GCCTCTCTCT CTTAGTGAAA ACTGAATGAA TGGTAAAAAT CACTGTTTAT CACCTCTGTA
180961 AAGTTTTGAT TAATGGGAAC AAGGATTTGT GGGGCTAGTC TTAAGCTGTA ATGAATCTGG
181021 TATACTTTGT GATATCAATT TGTCTTTCTG TATTACTCTG TCATAAAGAG GAATATGGTA
181081 GGATAGAACA TGGGCTCAGG ACTCCATAAG CCTGCTGTTC AAGCCAGCCC AGTAAACTGG
181141 TCCGTTGCAA AGTTTATTAC AGGTCCCTGG AAAAAAAAAA AAATAAAAC TGGATGAAGT
181201 TTCCTTCTCA TCTTGTTTTA TGTCTTTTGG AGCTTCACCT TGTAACCACG TGGCGGTACT
181261 TTCTCTTGGT CTCTGCCATC CAGGGAACAG GAATTTTGGG GTTTATGTAA TAGTTAACTC

```

Figure 1 (Page 56 of 73)

181321 TAAAAATTAT CTCAAGCCAT TGCAAGCTCA AAATTGGCTG CTCTGGACCC CTTCTGGGAA
181381 GGGCAATGGA AACTAACCAG TGTGTAGCT CAGCAGCTAA GGATTGTGCA TTTTATAATG
181441 GCGGCCAAGG TTCAATCCTG GCTTAGGGAA TGAGTACTTT CTGATTGATA TCTGTGTGAC
181501 CTTTACCATT TGTTGATTCT GTTCTCTTCC CCTCCACACA CTGTCTTGAG TTTTCTCTC
181561 TCTGAGAACC TGGGAGATTA TCTTTGGTAA AGTTCAAAAG CCAGAAATAA TGGCCGTGTG
181621 GGATGGCTAA AGTTGAGTAA TAAGAAACTT AAAAGGACTC CTTTTTTTTT TGCTTTAGAG
181681 TGCTATGGTT TATGGTTAAA AGCTTAATTA AAAGTGGATA TTCAATCTCT AAAAGCCTGG
181741 GACTCCTTGG GAAAAGCAGA GGAGGCACCA CAGACCCCAT TTTGGGAAAA CCTCTGTTTT
181801 CCTCATGAAA CCCCAGGAAC TGGAGTGGA TAGATCCTTC GCAAAATCTA AGGCTCTGTT
181861 TGGCTTTTGA TTATGTTATC TGATGTTTTT GACTTTTGGG GGTATCAGAA ATTACTTTGC
181921 ATTATGAGGG AGATCTGGTG TGTAATAACC AGGTAGGAAA TATACTTCTG GGGATAGCTA
181981 AAGGCATAA TAGGTGAATA CTTGGCTATT TGCACTTTTG GATCACAAGA AGCATTCTCT
182041 TGACTIONTA GAAGTATGG AAATGTCTCC ATCCCCACCG AGAGATAAGA TTCCAGGGG
182101 AGATGGCTGA TCCCCAAAA GAGGGCTGAT TCCCTCTTTT GGGATCCAGG ATCTGGTATA
182161 AAAATGGGAC CCTGGCCAGG CACAGTGGCT CACGCTGTA ATCTCAACAC TTTGGGAAGC
182221 CTCAGAGTTA TGAATGTCTC ACCATACTGA CACTTTGTGA CTGAGCTCTC CTCTACCTG
182281 GACACAAGAG ACCCTAATAA TTAGACAGGA ATATCATTGC CCTATTTAG TGTGAAGAAG
182341 TTATAGAAGA CGGATCTTTA TCCCACTGCA ATCCTTAGGA TTAAGGGTTC CCTGGTAAAA
182401 GGGAGTGGGA AAATATGTCA GAGGCATTTG AATCAGAGTG ACTCCATCTT GAATAGGGGC
182461 TGGGTAAAAT AAGGCTGAGG CCTGCTGGGT TAGGTTAGGC ATTCTAACCA GGAGTTTAGT
182521 CACAGGATGA GATAGAAGGT TGCACAAGGT ACCCGTCACA AAGACCTTGC TGATAAAATA
182581 GGTAACGGTA AAGAAGCCAG CTAAAGCCCA CCAAAACCAA CATGGCCACA AAAGTGACCT
182641 CTTGTCTATC TCACTGCTCA TATACACTAA TTATACTGCA TTAGCATGCT ACAAGACACT
182701 CCCACCAGTG CCACGACAGT TTACAAATAC CATGACAACA TCTGGACGTT ACCTTATATG
182761 GTCTAAAACG GGAAGAACC CTTAGTTCTG GGAATTGTCC ACCTCTTTCC TGAAAAATTC
182821 TTGAATAATC CATTAGTTTA GCACATAATC CAGAAATAAC TATACGTCTG CTTATTTGAG
182881 CAGTCCATAC TGCTGCTCTG CCTATGGAGT AGCCATTCTT TTCTTTTATT TTTATTTTTT
182941 AGATAAAGAC TCGCTCTGTC ACTCAGGCTG GAGTCTGGAG TGCAGTGACG TGTTTTGGCT
183001 CACTGCAACC TTCACCTCCC GGGTTCAAGC AATTCTCCTG CCTCAGCCTC CCAACTAGCT
183061 GGGACCACAG GTGGGTGCCA CCATGCCTGG CTAATTTTTG TATTATTAGT AGAGATGGGG
183121 TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCTGGCCT CAAGCGATCC ACTTGCCTTG
183181 GCCTCCCAA GTGCTAGGAT TACAGGCATT ACCCACTATG CATGACCCAT TCTTTTATTT
183241 CTTAACTTTT TTTTGTTTTT TTGAGACAGA GTCTCACTCT GTCACCCAGG CTCTTTCTG
183301 GAGTGCAGTG GTGCGATCTT GGTTCACTGC AACCTCTGCC TCCTGGGTTT AAGCGATTCT
183361 TCTGCCTCAG TCTCCTGAGG AGCTGGGACT ACAGACATGT GCCACTACAC CCAGCTAATT
183421 TTGTATTTTT AGTAGAGACA GTGTCTTGCC ATGTTTGTCA GGCTTGTCTC GAACCTCTAA
183481 CCTCAAGTGG TCTGCCTGCC TCAGCCTCCC AAAGTGCTGT GATTACAGGC ATAAATCACT
183541 GCGCTCGGCC CTTCTTTACT TTCTTAATAA ACTTGTTTTT ACTTTACTGT ATGGACTAGC
183601 CCAAATTCCT TTCTTGTGTG AGATCCAATA ACCCTTTTGT GTGTGAAAGA ATGTATTGCT
183661 GCTGTTTCAAG CTGGAGCAAG CTGGAGCTCA TGCTGCTGCT CAGACTGGAG CATGCGTGAT
183721 CTGTGATCCC AGTAAGAGGA TCATGGTCAC TCCAGCCTGA ACGACAGCAT GATATCTCAT
183781 CTGTAAGAAA AAAAAATTAC TAGAGGGCTT TAACAGCAAA TTTGAGCAGC AAAAAGAAGT
183841 AATCAGTGAA CTCAAAGATA GGTCATTGTA AATGATCTAC TCTGAAAAAC AGAAAGAAGA
183901 CAGATGAAG AAAAAAGAAAT AGAGCCTTAG AGACAGGGGA TACCATCAAG CATACTAATA
183961 TATGCATAAT GGGACTCCTA GAAGGAGAAA AGTGAGAGGA CAGGGAGAGA GAATGTTTGG
184021 AGAAATAATT TCTCAAAGCT TCCCATGTTT GGCAAAAAAG CATTAACCTG CATACATATT
184081 TTAGGAGCTC AATGAATTCC AAGTAGGATA CACTCAAAGA GATCCATACC TAGACACATC
184141 ATAATCAGAT TATCAAAGA TGAAGAAGAT GAATCTTGAG AGCAGAAAGA AAGGAACAAT
184201 TCATCACATA CAAATAGTAC TCAAAAGATG TCTGGAGTAG GTATACTAAT ATCAGACAAA
184261 ATAACTTTTA AGATAAGCAT TGTATAATA AATAAAGAAA GGTATTTTGT AATGATAAAA
184321 GTGTCAATTC ATCAAGAAAA CATAACATTA TAAACATACA TGCACCTAAC AACAGAGCCC
184381 TAATATTCAT GAAACAAAAC TGACAGAATT GAAGGGAGAA ATAGAAAAAT CGACAATAAT
184441 AGTTGGAGAC ATCAATACCT CACTAGTTAG ACAAGATCAA CAAAAAATA GAAGACTTAA
184501 CACTTGAAAA CACCTAACCT GACCCTAACA TAAATCTATA GGTCACCTACA CCCCCAACA

Figure 1 (Page 57 of 73)

184561 GCAGAATAAA CATCCTTCTG AAGCTCACAT GAAACATTTT TCAGGATAGA CTGTATATTA
184621 CTTTCATGAAA TAAGTCTCAA TAAATGTAAA AGGACTATAA TAATAGAGTA TATATTCTCT
184681 GACCAAAGTG GAATGAAGAT AGAAATCAAT AACTAGGCTG GCGTGATGG CTCACGCCTG
184741 TAATCCCAGC ACTTTGGGAG GCCAAGGCGG ACAGATCACG AGGTCAGGAG TTTGAGACCA
184801 GCCTGACCAA CATGGTGAAA CCCTGTCTCT ACTAACAAAA TACAAAAATT AGCCAGGCCT
184861 GGTGGCATCT GCCTGTAGTC CCAGCTACTC GGGACACTGA GGCAGGAGAA TCACTTGAAC
184921 CCAGGAGGCA GAGATTGCAG TGAGCTGAGA TCGCGCCACT GCATTCCAGC CTGGGAGACA
184981 GAGCGAGACT CCGTCTCAAA ATTAACAAAAA AAAAAGAAAC TAGAAAAATA AGAACAAATC
185041 AAACCCAAAG CAAGCAAGAG GAAAAATGAAA AATTTCAAAG CAGCCAAGAA CAAAAGGCAC
185101 ATTATGTACA GAAGAACAAG TGTATAGATC ACATATTTCT CATAGACACA ATATAAGCAA
185161 AAAGACAGTG GAGCAAAATT TTTTAGATTA ATGAAAGACC TACAATTCTG TACCAAGCAA
185221 AAAAACTCCC CCCAAATGAG GGTGAAATAA GACAATTTAA TACAGAGAAA AGAGGAAGGA
185281 ATTTATCTAG TCATATGTGA GAGTTTATG ATACATTTTG TACTGTATAT GTGGATGTTT
185341 TCTATTTTCAT TTAAAAAATC AACCGTGCAA TTAAATGGTA GATTGTCTTG CTTCTTTTTG
185401 ATTGACACAG TCATTAACCTA AAATATTGTA GTATTTTTTT ATCTCCCTGC CTAAAGGCAA
185461 TAAACATCTA ATCAGCAGAC TAGAACAAATA AAAAATATTT TTTAAAAGTC CTTTAGGCAG
185521 AATGATAAAA GTCCCTTAGG CATATTGAAA TTCCTATTTA TACAAAGGAA TAAACAGTAC
185581 TAGAAATTGT AACTATGTGA GTAAACAGAT AATATTTTTT CTCCATAAAA TGTGGTTGAC
185641 TATTTTCACA AAAATAGTTA ACAATGTAAT GTGTGATTTA TAGCATTTAA AAGTAAACAA
185701 GGCCGGGCAC AAAGGTTTCG GCCTGTAATC CCAGCACTTT TGGAGGCCGA GCGTGCAGA
185761 TCACTTGAGG ACAGGAGTTC AAGACCAGCC TGGCTAACAT GGCAAAACCC CATCTCTACT
185821 AAAAAATACAA AAATTAACCA GCGTGGTGG TGCACGCCTG TAATCCCAGC TACTCTGGAG
185881 GCTGAGGCAC AAGAATCACT TGAATCCAGG AGGTGGAAGT TGCAGTGAGG CAAAATTATA
185941 CCACTGTGCT CCAGCCTAGG CAACAGAGCT AGACTCTGTC ACACACACAC ACACACACAA
186001 AAGAAAAGTG TATGACAACA ACAGTGCAAA AGAAGTGGAA ATGAAAATAA TGTATTTTTA
186061 TATAAGTGGT ATACTTTTAG ATGAACTACG ATAAATTAAT GATGTATACT ATAACTCTA
186121 AGGCAACCAC TGAAATAATG AAACGAAGAA TTATGGCTAA CAAGCCACAA AAAGAAATAA
186181 AATAGAATGA GAAAAAATAT TTAAGTTGTT CAACAGATGG GAAAAAAAG AGGAAAAAGA
186241 GAACAAGAA CAGATGGGAC AAATGGGAAA GTAATAGCAA GATGATAGAC TTAACCTCTAC
186301 CCAATATAGAT TATCACACTT AAGGTAAATG ATCTAAATAC TCTAATACAA AAGCAGAGGT
186361 TGTCAGATTG AATTAACAAA ACAGACAACA ACAAAAAAAA GCAAAAAAAG AGCCACAACA
186421 TGCTGCCTAC AAAAAATTCA CTTTAATATA AAGACACAAA TAGTCTAGAA CACCATCACT
186481 TTTAACCTTA TTTACTCAAA CCTCCTGATC CCTATTTATT TATTTATTTA TTTTATTATT
186541 TATTTATTTA TTTATTTATT TTTGAGACAG AGTCTGACTC TGTTGCCAG GCTGGGATGC
186601 AGTGGCACCA TCTAGGCTCA CTGCAGCCTC TACCTCTCGG GTTCAAGCGA TTCTCCTGCC
186661 TCAGGCCTCC CAAGTAGCTG GGACTATAGG CACATGCCAC CATGCCAGC TAATTATTAT
186721 ATTTTATAGTA GAGACGGGGT TTTGCCATGT TGGCCAGGTT GGTCTCAAAC GCCTGACCTC
186781 AGCCTCCCAA AGTGCTGGGA TTACAGGCGT GAGCCACAGC ACCCAGCTCC TCTTCATTTA
186841 TTCTTGCTAC GCTTCCTCCA ATCCATTTTG TGCATTTGAT GATTTTGCCA GTAACCTCTT
186901 TATTTTCTG GTAAATTAC TTATGGGTCA CTGAGGACTG GGATGTTCTT TCTTCTAGAG
186961 GGGGTTTGTG TCTGCTTTTG CCAGGAAGCT GGGGTACCAC CAGTCAAGTA TTACTTTAAA
187021 CTCAATTTCAT GAATTGAGAC TTTTTTTTTT TTTTTTTTTT TTACGCAGAG TCCTACTCTG
187081 TCACCCAGGC TGGAGTGCAG CCGTGTGAAC ATGGCTCACT GCAGCCTCAA CCTACTGAGC
187141 TCAAGCAATC CTTCTGCCTC ACCATTCTGT ATAGCTAGGA CTACAGGTGT GTGCCACCAT
187201 GCCTGACTAA TTTTTTAAAT ATTTTTTTTA GAGATGGGGC TCACTTTGTT GCCCAGGCCA
187261 GTCTCGAGCT CTGGGCTCA AGTGATCCTC CCACCTTGGT CTCCCAAAGT GCTGGGGTTA
187321 CAGGCATGAG CCTCTGTGGC TAGCCAAGAC TTTTATTTT TTAGCCTAAA TGTGTATAAA
187381 AGTTGGCTTG TGGTTACAAC TTATCAGGAT TGATGATCTC TCTCTCTCTC TCTCTCTCTC
187441 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
187501 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTATCAT CTTTGGGAT
187561 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAGAATCT
187621 GGACTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
187681 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTTGATGTG CTTTATTGTC ATTATTATAT
187741 AGTACAATGT ATTTTGTAAAT TTTTGTGAT TTGTTGGAG AGATTGATTA ATTAGAATGA

Figure 1 (Page 58 of 73)

187801 TGTTTAATTT CCAAATATGT GTGTTTTTTT CTACATTTCT TATTTTTATT GATTTCAAAT
187861 TTATTTCTAC TGTAGTCAGA TTTAATAATT CATTTATTTT TATTATTTTC ATTTTTTTAG
187921 AGACAGGGCC TTTCTGTGTT GCCCAGGTTT GTCCCAAACCT CCTAGTCCCA AGCAGTTCTC
187981 CTGCCTCAGC CACCCAAAGT GCTGGGATTA TAGGCACGAG CCACCCGTGC ACAACCAACA
188041 ATTCATTTAA AAAGTGGGCA AGTGAAGTGA ACAGACATTT CTCAAAGAA GGCATACAAT
188101 TGGCCAACAA ATATATGAAA GAATGCTCAA CATCACTGTA TTAGTCTGTT TTCATGCTGC
188161 TAATAAAGAC TTAACCTGAG ACTGGGGAAT TTACAAGAGA AAGAGGTTTA ATGGACTTAC
188221 AGTTCCACAT GGCTGGAGAG ATCTCACAAAT CATGGTGGAA GGCAAGGAGG AGCAAGTCAC
188281 ATCTTACATG GATGGCAGCA GGCAAAGAGA GAGCTTGTGC AGGGAAACTC CCGTTTTTAA
188341 AACCATCAGA TCTCGTGAGA CTCATTTACT ATCATAAGAA CAGCATAGGA AAGACCCGGC
188401 CCATAATTCA GTCACCTCCC ACTGGGTTC TCCCAGGACA CATGGGAATT GTGGGAGTTA
188461 CAATTCAGAA TGAGATTTGG GTAGGGACAC AGCCAAACCA TATAAATAAC TAATCATCAG
188521 GGAAATGCAA ATCAAAACCA CAATAAGGTA TCATCTCACC CCAGTTAGAA TGGCTATTGT
188581 CAAAAAACA AAAAAATAACA AATGAGGTG AGGATGTACA GAAGAGGGGA CTCTTATGTC
188641 CCACTGGTGG AAATGTCAAT TAGCATAGCC ATTATGCAAA ATAGTATGGA AGTGAGGTAG
188701 GTTACATAGG GTGGTCACAG CCTCCCTTGA AAGGAAACAA GAAACTTGTC AAATTGATGG
188761 AGAGAACAAA TCTCTTGACA TTACACAAAC TGCATCTGGG GCTAGTGGTT AGAATATCCT
188821 CAGTCAAGGA GGTAAGAG CAGGAGGGAA AATCCCTAAG TTCGTGCAAG TGCAGAAACC
188881 CACAAGCTGT GTTCTCAGGT TGACATATAC TCATTTTAAT AGTAAGAAAC ACACCCTTGG
188941 GTAGAGAATT AAAATGCTAA TAATACATGT GATGTATGTA CTAGCGTGTA TGGCAATATT
189001 GCATGCACAT TCAAGAGACC ACCCAAACA TATTTAACA CAATGCCAT TCCCACCCCC
189061 TCATGGATAA TCACGTAGGA CTCCCATAAC GGGAGTTTCT TCAGTGTCAA TTGGTGCTGA
189121 AGTAGCCGAC CCTGACTCTG CTATCAGCGT GTACTTTTAC CTTGCAATAA ACTCCTTTGC
189181 CTACTTTTAC TTTGGACTGG CTTTCAAATT CTTTTGTGCA GGGAATTCAA GAATCTGAAC
189241 CAGCCTACTG ACAACAGAGG TTTCTCAGAA ACCTAAAAAT AGATCTACCA GATGAGGCTG
189301 AAAATCTGCT ACTGGCTATT TATCCAAAGG GAAGGAAATC AGTATACAAA GAGACACCTA
189361 CATCCCCATG TTTATTGCGT CACTCTTCAC AAGAGCTGAT ATATAGAGTC AACCCATAAT
189421 GTTCATTAAC AGACAAATGG ATAGAAAATG TGGCATATAT ACACAATGAA ATACTATTTG
189481 GCCATGAGAA GAATGCAATC TTGTCAATTTG TGGCAACGTA GATGAAACTG GAGAACATTA
189541 TGTAAAGTAA GATAAGCTAG GATTGGAAG ATAAATACTA CATGTTATCA CTCATATGTG
189601 AAAGTAGAGA AAAATTTTTTA GCTCATGGAT TTAGAGAACA GAACTGTGGG TACCGGAAGC
189661 TGGGAAGGGT AGCAAGGAGG GGAGGATAGG GAGAGGTTGG TTAATGGTGA CAAAATTACA
189721 GCTAGATTGT AGAAATGAGT TCCGGTGTTT TGCACCATTG TAGGGTGCAT ATGGTTAACT
189781 CTCATTTATT GTATATTTTC AAAAGCTAG AAAAGAATTT TGAATACTCA CAACAAAATA
189841 AATGATAAAT GTTTAAGGTG ATGGATATAC TAATTACTCT GATTTGATTA TTACACATTG
189901 TGTACACATA TAAAAATATC ACTCTTTATC CCGTATATAT GTACAGTTAT TATATGTCAA
189961 CTAAAAATAA AAGAAAAAAA GAATATGATC TATCATGATG TATATATCAT GTGTACTTGA
190021 GCAAAATGTG CATGCAGATA TTGTGTATAA TGTTCTATAA ATCAATTAGC TCAAGATAAT
190081 AGATAGGATT GTTCAGATCT TCTGTGTCTT TACTGATATT TTGTCTAGTT ATTGCATCAT
190141 TACCAAAAAA AGGGTGTTAA ACTCTCCAAA TGTGATTGTA GAATTGTCTA TTTTGTCTTT
190201 TCTTTTCCAT TTTTACTTTA TGTATTTTGA AACTCTGTTA TGACATTTTG CTATGTATTT
190261 TAAACTTTCG TTATGTATTT TGAAACTCTG TTGTTAGAAT CATACTTTTA TGATTATTAT
190321 GTTTTCTTGA TGAAATGACA CTTTCTATT GTCATTTGTT TTGTTTTTTC TGAAATGGAG
190381 TCTCACTCTG TTGCCAGGC TGGAGTACAG TGGCACAATC TTGGTTCCT GCAACCTCCA
190441 CCTCCTGGGT TCAAGCGAGT CTCCTGACTC AGCCTCCAAG TAGCTGGGAT TACAGGCATG
190501 TGCCAGCATG CCAAACCTAAT TTTGTATTTT TATTAGAGAC AGAGTTTCAC CACGTTGGCC
190561 AGGCTGGTCT CGAACCTCTG ACCTCAGGTG ATCCGCCCAC CTCGGCATTT TTATTTTATT
190621 TTATTTTTTT GAGACAGAGT CTCCTCTGT CACCCAGGGT AGAATGCGGT GGTGTGATCT
190681 TGGCTCACTG CAACCTCCGC CTCCTGGGTT CAAGCAATTC CCATGCCTCA GCCTCCCGAG
190741 TAGCTGGGAT TACAGGCACA TACCACCATG ACTGGCTAAT TTTTGTATTT TTAGTAGAGA
190801 TGGGGTTTTT CTATGTTGGC CAGGCTGGCA ACTGACTCCT TTAACAATAC AAAATATCAC
190861 TCTGTCTCTG GTAACACTCT CTGTCTTAAA CTCTATTTTA GCTGTTATTA TTATAGCCAT
190921 TTTAGTCTTT TTATGCTTTC TGTTTGCATA GTGTATATAT TTTAATATGT TTATTCTCAA
190981 GTTATCTGTG TTTTATATTT TAAGATGTTT CTCTCTTAGC CAACGTGTTT GGTCTTGCA

Figure 1 (Page 59 of 73)

191041 TTTTAAAGTC GATTCTAACA ATCTTTGCCT TTCAATTGAA ATATTTACAC CATTAACATC
191101 TAACATTAAC ATTTATTTTT CTTTCCACAG TACACTGGCT AGCATCTCCC ATATAATATT
191161 GAACATAAAG TGTGATAACT GACATCCTTA TTTTCATTCCCT ACTCTGAGTG GAAAGGGCAG
191221 GGGTGGAGAA AGCATTCAAC AATTTGCCAT AATTATAATG CTTTTTGTTA CACTGTTTTT
191281 TTCTGCATTA AAAAATATCA TTACATTTTG CATGAATTAT TAGGAGAAAA TATTTTCCAA
191341 TTTTCCTGGA AAATGCCATA ACCACGTCTC TCAATTTTGT TTCCATCTTT CTTCCACATT
191401 TTACATAACC TACATAAGAG ACACATTATC AAGTATATTT TACATGGCTT CTCAGTGTCT
191461 TCTCTGTCTG CTAACAGGT TACCAAGAGA TGGCACTCTT GTATTTCTGG TGGCTATGTC
191521 CATATCGTTT TGCCTTTAAG ACAGCGTAAC TACTTCTTTC ACCAGTATTA AAGACATGTA
191581 CATTGTATCT GGTCTTTGTG GATGATTTTA AATGACTCAA GCTAATAATC CTAATTTTAC
191641 CTAAACACTC CATTATTTTA AAATGTATTC CTTTATGCCC ACAATAAACA TTTATTGACA
191701 TTAGGCTGGA CATTAGGCTT CTCTATGGCA GACATTAGGC TGGACCCTAG CCATATATCT
191761 ATTGAGGGAA AAAAAATTAT TTTCTATATA AGTTTCCAGA AAGCCAAGAT GTGTTTTAAA
191821 AACAAAACAA AACATTACAT TCTAAATGCT GTAACAAGAT AAGAAAAAGT GTTGAGGCTG
191881 AGAGAAGAAC AAAGCAGCAA GCAACTCCTG GAAGGACCAC TGCTGCAGAG GTAATTAATG
191941 GTGAACCATG TTTTGGAGAA GGAAAAGGTC ACCAAGAGAA GGAGGGGGTC CAGGGTGTTC
192001 AGAAAGATTG CATGCATAAA GATCAAGGGT AATAAAAAAA ATTCCTGATT ATGTAAATGT
192061 GAAGTTCCAG GACCATGAGC TTGGAGAGCA TGAAGTACAG GAGGAGGGTT GGTTCAAAAT
192121 AAATCTGGGA ATGAAACAGT GAAGCCTCTG GCAGAACTCA CATCTCTTTC CTCCCCCTCT
192181 CCTTGCACAT TCCCTTTATG GAGTAATTGC AGGGATGGGA AAAGTTCAAA ACCACCCTG
192241 AGCCTAGGAA GTGCTAGGGT AAAGTGGAGA ATGAACCTGC GTGATTTGCT CATCTAAAC
192301 TAGGTTCTTC TAGGAGAGCC CTTCCCCATA AAATCTGCCC TCCTCGAAGG GGCCAGACA
192361 GCCTAAGCTC ACCTCCCAA GACCCCTTAC TTGCTGACTG AATCTGATTC CACCCAGACA
192421 TGGCCTAAAA CCCTTCCATA ACTCTATAGC CAAATTCAT TTTAGACAGG CCTCATACCA
192481 ACCTTTCTTC CTCTAAGTCT GCCACCCTAG GCAATTCCTA ACATTCCTTA CACACTTTGG
192541 GGCCATAGAC GTGCTACCAA GTCTCCAGAC CTAGACCTGA TGGAGCAGTG CTGTAATGAG
192601 ACGACCACTG GCCTTTGAAC CAGACCCTTC TCTGTGGCTC CTATGCATCT CCAACCTGTT
192661 TTGAGCACTG CTGCCAAGAC ATCTTTGGCA CTTTGTGTGT AAGTTTTAAA ACTGAACTAA
192721 TCTACAAAAC ACCTAACCTT TAAAAATCA TTGTCAATTC ATATCATGAA AGATAAAGAA
192781 AGGCCAGGAA ACTGTTCCAG GTTAATAGAG ACTAAAGAGA TAGCAACCAA ATGCAATTTG
192841 TGATCCTGGA TTGAGGGGAA AAAGTGTGT GTAGACATG ATTGGGACAG CTGGTAAAT
192901 TTGAATTTGA ATTTAAAGAT AAAGTATTGA GTAATATAGG AAGATGATTA CTGCAACTT
192961 TCAAATGTTT CAGTAAGTAT ATATATATAT AAAGAGATAT AAAGACATAT AAATAAATGG
193021 ATAGGTAGAG AAAAAGCAAA TGTATAATAT TAACAATCTA GGTAAAAAGT ATATGAGTGT
193081 TCTTTGTACT GTTTTTCTGA TTTTCTATA TGTTTGAAAT CATTTTAAAA TAAGAAGGTT
193141 TTTGGGTTTT TTTTGTGTGT TTTTGTGTTT TAGAGACAGC ATCTTATTCT GTCACCAGGC
193201 TGTAGCTCAG TGGCCCAATC ATTGCTCACT GCAGCCTCAA CTTCTGGGC TCCAGTAATT
193261 CCCCCTACCT CAGGCTCATG AGTAGCTGGT ACTTCAGGTG TGCACCACTG CACTCAGCTA
193321 ATTTTTATTT TTTAAATTTT GTAGAGATG GCATGTTGCT ATGTCACCCA GGCTAGTCTC
193381 AAACCTCTGC CCCCAGTGA TCCTCCCACT TTGGCCTCCC AAAGTGCTAG AATTATAGGC
193441 ATGAGCCACT GCACCCAGCC CCAAATAAAA AAGTATTTTA TTTTAATTAA CTAATTAAC
193501 TTGAGTCAGA GTTTCACCC TGTACCCAG GCTGGAGTGC AATGGCATGA TGTGAGCTCA
193561 CTGCAAACTC TGCCCTCCTGT GTTTAAGCGA TTCTCTTGCC TCAGACTCCT GAGTAGCTGA
193621 GATTACAGGT GCCTGCCACC ATGCCAGCT AATTTTTATA TTTTATAGTAG AGACGGGGTT
193681 TCAGCATGTT GGTCAAGCTT GTCTCAAACT CCTGACCTCA GGTGATCCAC CCACCTCCGC
193741 CTCCGAAAGT GTTGATGAG CACCACCCC GGTCTAAAAA GTATTTTAAA ACCACAGTCC
193801 CACTCTACCT TGTCTTACAC TACCAGGGG TAGGATCACC CCATGTCTTC TAGGATATGA
193861 GATAGAGGAA TCCAAGGAAG AAGATAAGCT ACTTGGTTCC TCTATAGGGT CTGTGTGTG
193921 CTCTCATGTG CTCTCTCTCT CTCTCTCTCT CTCACACACA CACACACACA CACACACACA
193981 CACATGAATA CCAGAGCTAT CACTTTCCCA GTCTAGTACT CATCTCATCC CAAGGGTTTT
194041 GTGTTGTAGT GGTGTGCTCA TTTCTTTGTT TTGTTTGTGTT GCTTGATTA TTCTTTTCT
194101 CTTTTTGCAG CTGAAGGGAG AATTTCCAGG CCAGCCCTTT GGCCATTAGA GTTACAGTGC
194161 CTCTATTCTG GCTTCATAGA GAGACCTGGG ATTCAGTAGT GGGGGGCTTT TATCCAGTTC
194221 AAAATAATGC ATTCTACCA AGATGTACTT TGAAATAAAA CAATACTAAA ACACAAAATT

Figure 1 (Page 60 of 73)

194281 TTATTTATGC TGAACATTGA ATCACTTTTT TCTGTATTTT GTGTAGAAAG TTATACACAC
194341 ACAAACACAT TTGCTCCTGC TTTGTTTATT GGCCAGGGG TATGTTTGGT AATACTTCAT
194401 CAGGCATGAG TAGTACGTCT TGGAAGGTGT GGTCTAAAGC CTAGACTCCT ATCTGCTTCC
194461 TTCAGCATTC TCCAGTGTAT CTGTCATCTG TCTACCTTAG GATAGGGGTC TCCAGAAGTT
194521 CCATTTCACAT TTAGAAGAGG GCAGCGGCTT TCTATGGAAA ATATGAACTC TCATTTCATCT
194581 CTATTCCTTC TTCTAGCTAT GGTCCAGCTC AGCTGTTTGG AATAAAGTAT CTATATGAAG
194641 TCTGCGAATG GTTCTCAGAC TGGTTGAACA TTAGAATCAC CTGAGTACCT TCTAAAATTC
194701 TTATTACCCA GGGCATATCT CAGAATGAGT ACCGCAGGGT AGGGATAGGA TTAGGGATCA
194761 TGATCTCTGG AGTCTGGTTT AGGCACTAGT GCTGTTTAAA ACTACGTTCA TGAGGTGGAG
194821 GTTGCACTGA GCCGAGATGG CGCCACTGCA CTCCAACCTG GGCGACAGAG TGAGAGTCTG
194881 TCTCAACAAA ACAAACAAA AAAAACCAAC TACCCTTGTG ATTTGAATGT CCATCCAAAA
194941 TTGAGAACCA TTAGGTAAGG CCAAGCTGTA TAATTAAAGA GCAGTTTTCA TTTGTCTGGT
195001 GTGGTGCGAG CTTTTTGATA AGGGAAGTAT TGTTGCCATC CACATACCTG AGCCTCACTC
195061 CTGAGAACAC TGGTGTGTAT GTTGCTAAAA TTCCCAGGT GATTCTGAGG TTCCTTCCTG
195121 GATAAAAAACC ACTGACCCTG GGAATGTACC CACTGCCAAT CTCCTGCGTA AACCTTGGAT
195181 ACTGGGAAGC CTACAGTTGA AAATATTGGG CTTGAGATCC TGAAACAAAT CTTGTATTTT
195241 ATTAAGACTA ATATTTGGTA CAGTGCAGCA AATCAAGGGA ATTTTGGTGG CTGAGTTCTT
195301 TTAGAATTTT TGCATTGAAA TAGGTTCAAG CAGCAATAAG TTAAACTAC AACCTCAGCT
195361 AAAGGATTAA AAGACACGTG AGCTGGGTAG GATGAGGTCT AAGGTGGGT GTGGCGGCTC
195421 ATACCTGTAA TCCCAGCACT TTGGGAGACT GAGGTGGGTG GATCACTTGA GGTCAGGAGT
195481 TCAAAACCAG CCTGGCCAAC ATGGTGAAAA CCCATCTCTA CTAAGAATAC AAAAAATTA
195541 GCTGGGCGAG GTGCCAGGCA CCTGTAATCC CAGCTACTGG GGAGGCTGAG GGAGGACAAT
195601 CACTTGAAC TAGGAGGAG AGGTTGTAGT GAGCTGAGAT CGCACCCTG CACTCCAGCC
195661 TGGGTGACAG AGCAAGACTC CATTTAAAAA AAAAATAATA ATAATAACAA TAATAATAAT
195721 TCAGACATAT CCAGGCATCA AACAGATACC TGGGGCAGAT GAATAGTCTT GAGATTCAAG
195781 TCACACATGA AATTTAGGTG GAAAATGACA TTGGAGAAAT TTGAGATTAT GATGAATGGA
195841 AATTTTCAA AGAGGAATTT CAGGCTCTGT TCTTGAGGGG ATAGATGGAC TTCCAACAGC
195901 AATAACACAG GATTAATGAG GACTTGGGAT GTTACATAAA TTAGAGATGT TAGATGGATA
195961 AAGAGATAAA AGTACTCTCT CTAAGAACAT GGGACCAGAG ATAGGCTCAC TTCTAACCAT
196021 CAGATATAAC TAGCAGACTA AACGGTCTAA AAATAAAAT CATGCCCCAC TCCTGCTTAA
196081 GACATTTTAA TTACTCTCAG TAACTCTTCA GTTTTCTTAC TGTGTTATCT TTAATACAG
196141 GGTTGGTCTG GGTGTGCAAC ACAAGAAAGC CTGGCATATA CATGGATTCA AGTGTATGCC
196201 ATGTGCAGGT ATTCTTTCAT GTACTATTTT ATGTATTCTT TTTCACATCT GTTTTTCCT
196261 TCATTGAAGT CAATGGCTGA TATTAGATTC TACTATTCAT GTGTACTAGT TATATATAAT
196321 TGTTACAAAA CAAATTAGCA AAAACTTAGT GGCTTAAAGC AACACACATT TATTATTACC
196381 TAAGGTCTGT GGATAGAAGT TCTGACATGG CTTAACTGGG TTCCCTGCTT CAAGCCTCAT
196441 GTGGCTGCAA TCCAGGTGTT GGCTGAGTCT GAATTCTCAT CAGAGGCTTG ATTGTGGAAA
196501 TTTCCACTTC CAAGCTCCCT CAGGTTTGTT GAAAAATTCA GTTCTTTGCA CCGGTAGAAG
196561 CTTCTTGGTA GAGGCTGATT CAACTTCTAG AGGCTGTCTG CAGTTCCTGT CACCCAGGGT
196621 GGAGTGCAGT GGAGCAATCA TAGCTCACTG CAGCCTTGAC CTCCCAGAA CAATCTGTTT
196681 TCCCACCTCA GCATCCTGAG TAGCTGGGAC CACAAGTGTG TGCCATCACA CCTGCCTAAA
196741 AAACAAACAA ACGAAAAAAA ACCCCCAGAG AACTTTGTAG AGACAAGCTG GTCTGGAAC
196801 CCTGCGCTCA AGCAATTCTC CTGCCTTAGC CTAAAAGTTC TGGGATTATA GGTATAAGCC
196861 ACCATACCTG GCATATGGCA AGTCTTGAGC AGGACAAATA CAGATGATTT ATGCTCTGCT
196921 TCCATGGTAT TCTAGGTTAT TGTTGAGATG GTCCTCTATT GTCTTGTTCC ATCTATTGAT
196981 TAGATAAAAC GTTGTTCCTT CTGTTATTTT TCAACAGTAG CTTTTATGTG TCTCTCTTTA
197041 TCTTAAATTT CTAACCAAAG AGCTGCTCTT TTCTTGGTGT ACTTTACCTT TGGTTGATCC
197101 TTCTTAACCT CTTCTTGCCC TCTGGGGCCT AAGATGAGGG CTGTTATCAG ATGTGAGTCT
197161 ATGGGAAAGC AAGCAAGAGG TTCTTCAGCC TCCGTTGAGC CTTAAATGTC TAGGTAGAAA
197221 TCAGTCATGG CCCTTCCAAT GTGGTACAGA CCAGATCACA GAGACAGGGG TCTCAGCCAA
197281 GGTCTTGTGG CCTAAGCCTT ATAGAAATAA TGAGTGTTTA CTTACTTGGA GAACTCCCTT
197341 GGAATATCTT TTTTGTGAA CCTGAGGCAA CTTTGTGTA TTTCTTGATG TCTTGGGAAT
197401 CTTGGTCTAG AGCCATTTCA ACCCGATTTT TTTTCATGTC AGTGGCATTT TGTGACCAGA
197461 TAGTAAATAA GTTCTATGAT GTTCACTCAG AGAAATACAA TGACTTATGA TGCGAAGCTT

Figure 1 (Page 61 of 73)

197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCCTGCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACTTACTT
197641	TTCAATTAGG	AGTGTCTCA	CTTCTATCCG	TCAGACATAA	CTAGCCGACT	AAACAGTCTA
197701	AATATAAAAA	TCATGTCTTA	CTCCTGCTGA	AAACATTTTA	ATTACTCCCC	ATCATTTAAT
197761	TTTTTCTACT	GGGTATCTT	TAACCTCAGA	GTTGGTCTTG	TGTGCAACAC	AAGAAAACCT
197821	GGCATATACA	TGGATTCAAG	TGTATGCCAC	GTGCATGTAT	TCCTTCATGT	ACTATTTTAT
197881	GTATTCTTTT	TCACATCTGT	TTTTTCCTCT	AAAATTTATT	TCCTTTTAAA	AATGAAAATT
197941	TTGCATTTGA	CTAAATTTGT	CAAATTTAGT	CAAATTTGTT	TAAAACCATT	TTTAAAATGT
198001	TTCCCGAAGT	TTTGAGTGAA	GTTAGTACTT	CAGAAAAACT	GTTTTGTATT	TTTCCTGTGA
198061	CCTCAGTGCA	CTGCTGTGCA	TTTCCATTTC	TGCGTCCACA	CACATTTGTT	TTGAGGAAAT
198121	ATAGGAACGA	CAAGATAAAG	TTCAAGCTCC	TGGACATTGC	ATAAAAGACC	GTCATGACCT
198181	GGTCTGTGTT	ACTTCCCTAG	ATTTCCCGCT	ATTTCCTAAG	TTGAGATTTT	TGGTTTGGAT
198241	GCTTTGTGTT	TTCTCTAAAT	CAAAATAGGT	TTTTGCCTTT	TATGATTATA	CAGTAAATAA
198301	ATGCTATTTG	TGTGAAACTT	TAAACAATAC	AAAAAAAACC	TAAGGAAGAA	AGTCAGATTG
198361	ATCTAAAAAT	CCTTGTGGCC	AGAATTAAC	ACCTTAGTTA	CTATTTTCTC	TATCTCTCTC
198421	TCTCAATGTA	TATTTGGTGT	AGGTATAGGG	GTGTGTGTAG	TGTGTGTGTA	TGTATATATC
198481	TGTTTCTATT	CCTGTATGTG	GATGTGCACA	ACGCATCCTG	CTTTGTACAC	TACAGTACTA
198541	GCATTTTTCT	AATGTAATTC	AATATTGTTG	AAAACATTTT	AAAAAAGCTT	GTATATATAC
198601	ACACACATAC	ACATACATGC	ATGTATGTAC	ATATACACAT	ACAGACAAAA	ATGTATCCTA
198661	TGTATATTCA	CACATGTATA	CACACTCACA	CATACATAGA	GTTTTACATC	CATAGTTTAT
198721	AAATGTTGCT	TTTTTTTGGT	CACCTTTTTG	CTAAGTCTTA	CACCTTTTTT	TTTTTTTTTT
198781	GAGACGGAGT	TTTGTGTGCA	TTGCCCGAGG	TTAGTGCAGT	AGCGCGATCT	CACCTCACTG
198841	CAACCTCGAC	CTCCCGGGTT	CAAGCGGTTT	TCCTGCCTTA	GCCTCCTGAG	TAGCTGGTAC
198901	TACAGGTGTG	CGCCACCATG	CCTGGCTAAT	TTTTGTAGTT	TTTTTATAGA	GACGAGGTTT
198961	CACCATGTTG	GCCAAGCTGG	TCTGGAACTC	CTGACCTCAA	GTGATCTGCC	TGCCCTCAGAT
199021	TCCCAAAGTT	CTGGGATTAC	AGATGTGAGC	CACCTGCACCC	GGCCAAGTCT	TACACATCTT
199081	TTTTTTTACCA	CTAAACTGTT	TACCCAAACC	TGATAACCCA	AGTCAACAGC	TATTATGGCT
199141	CACACAATCT	TATGTAAACA	AAGATACAGA	TATATAGAAT	TTTCTTGATT	AATATTCAGA
199201	AAAAAATGGA	GTCCCTTTAT	ACGTCCTTAG	TATCTGCTTT	ACTCATTTAA	AAATGTATTA
199261	CATTATATGA	AAGTATTCAG	GTCAAATGTT	ATAGATGTGA	TTCATCTCTT	TTAACTGTGT
199321	TATTTTTCTG	CAATGACTAT	GTATCACAAA	GTACTCAGTC	TTCCACTGAT	GAAAAATTGG
199381	GCTATTTCCA	GTTTGTCTTC	CATTTTTCTT	TCTTCCTCTT	GGATTTTCAC	TCAATGTGTT
199441	TACTAATTTA	GGAAGAATCA	ATAGTTTTTA	TGGTATTACT	TCTCCCATTC	AAGAATATAG
199501	CATATGGTAT	AGTATAGTAG	AGTACTTAGT	TTAATTTAGC	CAGATCCTGT	TTTCTGCCCT
199561	TTAATAAAAT	TCTATCATTT	TCTGCCTTTG	AGTCACATTT	TCCTTGTTCA	TATAATTTCT
199621	AAAAAATGTA	TAGTTTTTCAT	TCTAAGGGAA	CATAAAAACT	TCTTTCCATT	TCTATTCCTG
199681	TCTAGTTAAT	TCTACTATTG	GGAAAAGTAA	CTGTTAAAAA	AAATTCCTAT	CTTTCCAGTC
199741	AGTTCACCAC	ATTTCCCTTTA	TACCTTTGTA	CTTTAATCCC	CAGTCATGTT	GAACACTTCT
199801	TATTCCTCAC	ACCAAGCCTC	AACGGGTTTG	CTCTTTCTGG	AAGGTGCTTC	CCCTGTATTA
199861	CTGACTTATT	CATACCACAC	ATGGAGACTG	GCGCAGCCCT	GTTCTGCCTG	GGAAGCCTTC
199921	CCCTGATACC	CCCAGTTGGC	AGGAGTCTTC	ATTTGTTCTT	TTCTAGTCAC	CTGTGCAAGT
199981	TTGTATTGTT	CATGTTTATC	ATCCTTCATT	CTAGTTGTCT	GTCTCTGTGT	GTGGTCTCAT
200041	TCAGTGGACT	CTGAACCTTT	ATGAAGTCAT	GTCATGGGTC	AGATCTTAAT	AAATTAATAT
200101	TGTCGGAAGC	TAATGTCATG	TCTAGAATAC	AGAAAAATTA	TCAAAAAAAA	ATATAGTATG
200161	TTGGCTGGGC	GCAGTGGATC	AAGCCCGTAA	TCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
200221	GATCACATGA	GGTCAGAAAT	TCAAGACCAG	CCTGGCCAAA	ATGGTGAAAC	CTCATCTCTA
200281	CTAAAAATAC	AAAAAGTAGC	CAGGCGTGGT	GGTGCCACC	TGTAATCCCA	GCTACTCAGG
200341	AGGCTGAAGC	GGGAGGATCA	CTTGAACCTG	GGAGGCAGAG	ATTGCAATGA	GCTGAGATCA
200401	TGCCACTGCA	CTCCAGCCTG	GGCGACAGTG	AGACTCCATC	TCAAAATAAT	AATAATAATA
200461	ATAATAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
200521	TTTTTAAAAA	ATTATTATTT	TTTAAAGTTCC	TGGGTACAAG	TACAGGATGT	GCAGGTTTGT
200581	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
200641	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
200701	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCT	CTCCCTGTGT	CCACATGTTT	TCATTGTTCA

Figure 1 (Page 62 of 73)

200761 GCTCCCACTC ATAAGTGAGA ACATGAGGTG TTTGGTTTTT TGTTCCTGCC TTAGCTGTTA
200821 ATGTCAGGCC AGAGAGGCTT AAATTTTTTAA GGATCTCTGG ACTTTTCTTC TACATTACTC
200881 TTGATGTTTA TAAATGTTAC AACTTCTTTA ATTTTCATTTA ATGTATACCT TATTGAGTTG
200941 ATTTAACTGA GTTAACTTTG TTATATGAAA ATCATGATTG GGAGTGAGGG GGTAAACCA
201001 GCTACAGAGA TCTTGATTGT TGGTGGTGAA GCAATGCAAG AATTCATTCA TTCAGTAAAC
201061 TAATGTTTAT TAAGCGTGTA CTGTCTTAGT CTGTTTCAGAC TGCTGTAACA AAATATCATA
201121 AACTGGGTGA CTTATAAACA ACAAAAAATT TATTTCTTAC AGTTCTGGAG GTGGGAAGTC
201181 TAAGATTAAG GCCCTGGCAA ATTTAGTGTC TGGTGAGGAC AGGTAGCCAT CTTTTTGCTG
201241 AGTCCTAACA TGGCAGAAGG GTTGAATAAA CTTCTTTGGG TTTCTTTTAT AAGGACACTA
201301 ATCCTAGTGA TGAGGTTTCT GCCCTCATGG TATAACTACT GCCCAAAGAC CCCTCCTTCT
201361 AATATTATCA CTTTGTGGGT TAGGATTTCA ACATGAGTTT TGAGAGGATA CAGACATTTG
201421 GATCATAGCA CACACCATAG GACAGACACT GTGCCAAGAA TTGTGGATAT AGTGATTCTC
201481 AAAATGAACA AGATCCCTC AGAGAGCTTG CAAAATCCAG CTATAAAATT ATGCTTTTTA
201541 AACAAATTAT GCAGTTTGAA AAATCTACTC TGAATCTTAC TTGTGGCATT GAATCTTTC
201601 GGCCACTCTT TCCTTATTAT ATTAAATATT TACTCTTGTT TGGGGGATCC AGTCTCACCT
201661 ACTTTTTCTA CCAGAACTGG TATCAGCTCA TGCTCTGCCT TATGCAAATT AAGAAAATAT
201721 CATACCTTTT GGGTAAATTA AGCCAAGAAA GTTCTCCTTT CTTCTCTTTC TCTCTTCTT
201781 TCTTCTCTC TTTCTCTTTC TTTCTTCTC TCTCTCTCTT TCTTCTTTC TTTCTTCTT
201841 TCTTCTTTC TTTCTTCTT TTTCTTCTG ACAGGTCTT GCTCTATTGC CTAGGCTGGA
201901 GTGCAGTGGT GCAATCTCAG CTCACTGCAG CCTTGAATC CAGGGCTCAA GCAATCCTCC
201961 TGAGTAGCTG GGACTATAGG CATGTGCCAC AACATCAAGC TAATTTTTGC ATTTTTTTGT
202021 GGAGACGGGA TCTCCCTATG TTGCTAAGGC TGGTCTTGGA TTCTTGGCT TATGCGATTC
202081 TCCTGCCTCA GCCTCCCAA GTCTGGGAT TACAGGCATG AGCCACTGCC CCTGGCCATT
202141 ATAACATTT TCATTGGCTT ATCAGGCACA TGATAACTAT AATAAATCAA TAACCAGAAAT
202201 TTTTAAATAA AGAAAGGAAG GAATTGTTTC AACTCTTCCT GCTACCCCTC TATCCCTCAA
202261 AAGGGTAGGC TGAATGTTGT CCTCCAAAGA TATCCATGTC CTAATCCCCA GAACCTGTAA
202321 ATATATTACC TTATATGACA AAAGGGACTT TACATGTTTA ATAAGTTAAG AATTTTGAGA
202381 TGGGCAGATT TTCCTGAATT TTGCAGATGG GCCCTAGTGT AATCACAAGG GTCCTTATAA
202441 GAGACAGGCA GAAGAGTCAG AATAAGAGAA AAATACTTCA AGATGTTACA CTGCTGGCTT
202501 TAAGGTGGAG GAAAGGCCAA GAGCCAAAAG ATGCAGTGGT CACTACAAGC TGAAAAGAAA
202561 AAGAAATGGA TTTTCCCTTA AAGCCTCTGG AGGGGGCACA ACCTTGCCAA TACCTTGATT
202621 TTGGCTCAGT GAAACCCATT TTGGACTTCT GACCTTTAGA ATTGTAAATA AATAAATAAT
202681 TTTGTGTTGT TTCAAGCCAT CACAGTTGTG GTAATTTACT ACAACAGCAA TAAAAATAGAA
202741 TTAAATACAG AGATCTGAGG AGTTGAGTAG GATAAGCCTA CTCCAGCAGG TTATTTCCGG
202801 AGTATGGTGA GACTCACTAG GATGGCGGAA CTCAATTAAG GAAGTCTGAA GCTGATAAGC
202861 CAGAGAGGGA AGGCTCTCAT TTCATTTTAT AAGGGTTGCG TCACACTAGG AAGATCCAAT
202921 AGCAACCACA GTCTCAAAAT TAATGATTAC AAATAGGACA CAATTCCAAG AGTCGGGAGC
202981 CAAGCAGAAA ATGGATTAGG GAAGACATGG ATGATATGAA ACAGGAAGGA GGGGTACAAG
203041 GCAGCTTCCT GGGAAGTTGC CAGGGCAGTC ACAGTTCACA TTCATTAGGC TGTGGGCACC
203101 AAATGCATAT GGAAAATCTA GCTGACTTAA CTGAACTCCT GAAGAGGAAT GAACACCTCA
203161 TTTATTGAGG AGCTACTACC AATTAGAATA TGTATTTTCA TTGTTCAATA ACCCCATGAG
203221 TACAGTAACA CAATCCTTGC TTTACTAAAG CGGAAGCCAA TTCAAAGAGG TTCAGTGACT
203281 TGTCCAAGCT CAGGGAAAAC ACTAGGAAGT GAATATGGGT CTGACTCCAT CACTGATTTT
203341 AGGAGCCCTG CCCTTTCTCT CACACCATGC CCCCTTGCTT TCAGAAAAAA AGGCTTGTG
203401 ACTGAATGGT TGTATGCACA GTTCAAAGCA GAAACACACG ATGACATCTT TTGAGATACT
203461 CTAACAGTGA GAACCTGAAA ATGAAGTTAA AAATTAAGCG GCAAAACCAA GCCGAGGCTT
203521 TCTGAGAAAG TGGGGCCAAA CCTGTTGCCG TCTGACTGCC ACGTGGCTCA CTATTTATCC
203581 CTGTAAAAAT CTGCAAAAGT ATTTGAAAGG GAAGAAGGGA CAGAAAACCT CCTCCTTTT
203641 CAAGTTAGCC TTATAGTCTA GGGCTTAAAA TACTGGTTTA ATGGTGAAGG TAAGTGCTTT
203701 TCTTCTTTTT GGGTAGAAGG ATTATTACTA ACTTACCAA GGTCCATTAA GGGGAGGGA
203761 CAGTTTTTAG AGAAGTCAGA GAAAAGACAT TAACAGCAAC ATAAGGATCT CCATCTGGTA
203821 ATATTGCCTA ATTCCAAAAT GAAGAGACTC TCTGAAAAAG ATAAGTGAAT CAATGAAGAC
203881 CCTAGGGCAA GGCTTGAGAA GCCACTGGTA CCAATGGACA CTGTGGACAA TGGTCATTTT
203941 TCCAAGGACG CTGTGAGTAT TAACTGTGAT GCTGTGATTA GTCAGACTGG GATTGGCTGT

Figure 1 (Page 63 of 73)

204001 GGAATGAAAT ACTGATCAGA ACTGACAAGA TTTGTGTTTG GGACTGTGGC TAACGAGTCT
204061 TTTTCAGACTT CTATATGAAT TTGAAATGGT CTCTCAGGAA AAGGAGAACA TGGCCGGGCC
204121 TGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGCAGGCTG AGGCGGGCAG ATCACTTGAG
204181 GTCAGGAGTT TGAGACCAGC CTGGCCAACA TGGTGAAACC CTGTCTCCAC TAAAAATACA
204241 AAAATTAGCA GGGCGTAGCG GCGCGTGCAC CTATGCGCAT GCATAGTGGC CGTGCCAGCT
204301 ATTCAGAAGG CTGAGGCAGG AGAATTGCTT GAACCCAGGA CGTAGAGGTT GCAGTAGTTG
204361 AGATCATACC ACTGCACTCC AGCCTAGGTG ACAGAGTAAG ACTCTGTCTC AAAAAAATAA
204421 TAATAATAAA AGAAAAGGAG AACATGACCA AAGTTATGAA TAAGACTGAA GGCAAGAAAA
204481 TTGTACGCTT GTAGAGATCA CCTAGCTTGT TGCCCTCATT GTACAGCTAA GAAAAGGCAC
204541 CCAGGGACAT TGTGGTCAGC ACCAATTTCT CAGAAAGATA GGCAGATGAT GAGAGGGCCC
204601 TCAGTTTTC TAACACTGAA GGAATTGCTT CTATGTTTTT TGGTGAATC CTCCCCACTC
204661 ATCTTGAGGA TTCCAGGCCA GAAGAATCCA CTTTAAAAAA GAAACATTTA AAACCAATTT
204721 AACAACCAAT CAAAGGCACT TTTATAGAAA TACATTTTCA TTGCTGTAGG CCTGTATTTA
204781 TGGATCTGAG AGGGCTAGAC TGCCAATATT GTGACTGTTT ATTATTATT CTGTTGCTAG
204841 TATCTAGAAT ATTATACAAC ATATAACACT TTGCAATTTA CGAGGCATGT CTCATACTTT
204901 TGTTTTTCACT CCAAACCTGCC CAGTGAAGTA ACATTATCCC AATTCTTCCT ATGAAACAGT
204961 GAAAGCCCTA AGAGTTTTTG AAACTTTACC TGGTTTACTC AATTTGGGAA TGGCAGAGCA
205021 GAATTCAGTC CTTGAATATC CTCCCACATG AGGTTTCATG TCTTTGATCT AGGTGTAACA
205081 TTTACTCTGA GTAAACTAGG ACTCTGGGCT AACAGAGATG AAGCAAGACA GGCTGGATAT
205141 TAGGAGAATC TAAGAGCAAT CTAACGACCA TTATAATAAA ATCATGAGTT CTAGACTTAA
205201 AAAAAGGGAA AAACCTGTTT TTTTGCCTTAT GCGTATACCA TAATATTTAC ATTATTTATT
205261 TTTTTCTCAA ATTCAACCTA TACTGTGTCA AGTAATTTTT TTTAATATAA CATTTTCCTT
205321 TAACCTAATT TCAATTCATT TTTCTGTGTC TACTTACAAC TTTGGCACTA GAATTCACAA
205381 TTTTTTTTTA GAGGTATATC TCCTTAAAGG GAAGGGTTCT GACACTGTTA CATGTTCTCA
205441 ATTGTTTGCA AATAGGTTAA TAATTATTCC AGTGTCTCTA AGTACATATC AACCATGCCA
205501 GTGTTTCAGCC TCCATAATTT TATTAGCTTC TGTGCTTATT TTGGAAAAAC ATTTCCCATT
205561 ACCATGAAAG ACCTCAGTTT AGGATGGTTT GGTATGTTAG CCTGATTTCT GCATTCTGCT
205621 CATGCAAAGG AAAATAGGAA ACGAAGAACT GAAATTACCT ATTGATACAA AATCAAAGTA
205681 GCATTTGAAA CCATAAAACT TAAGTAGGGT TTTTCATCCT TTCTCGTTAG ACAGCAACAG
205741 AGAATGGGAA GAAAAACTAA AGTGATGGGT TTGTGATACA ATTCCAGTAA CATAAAGAGC
205801 AAGGAGAAGT AGTTTTGTTG TGTTTATGTT TAATATTCAA AGCTCAACCT AAAAGTATT
205861 TTCATTATCA AACTTCCTTC TAGAATAAAT GATTAAAACT TGATTTAAAA TATACAAATT
205921 CTCCTTTATA ATACCTCAAA ATGGAGCTAC CCCATTGAGT TTTAAGCTTG TGATTAAAA
205981 ATTACGAAAA CAAAGGGGAA GTTGTAATAG GTAGAACAAG CAGTAGTCTA GGCATTAGGG
206041 GATCTGGTGC TGGCTCTGTG CATCATGTGG TTTTCAGGCA CTTTTCAAAT TTTCTACGCA
206101 AATTTTCTTA TCAATAAAAT AAACAGTTGG GCCAGAGGAT CTCTGAGTCT CTTTCAGCTT
206161 TCAGTGTTTA TAAGATTGGA GAAGTTGGTG GGAAAGCTTT AAGTGGAGTG TAAGTAATTG
206221 CAGCTGCATG TACAGTTAAA GAGTTGCCTT CAGCCAAGCC ACGGGATCTT GCATAAAAAG
206281 TGAAATCAAA TAGAAAATGG TCCAAACTCT GGGTTTGACC ACAGATGACT TCAGCTAGGA
206341 TCTGAGTGTA GAGCAATGAG CTGAACTCCT GATATCCAGA TGTTAGCAAG ACTTGGAGGC
206401 CTTCTAAGGC AGAGCAACAA CCAGTATCTG TCCTGGTGCT GACCTGATCT TACTAGCAAT
206461 TGGGCCCTCCA TTTGGGTCCA TTGTACAAAA CAACAACAAC AACAACAATA AAATCTCCAA
206521 ACACCCAAAA TTCAAAATTT AGATGGAGAG ATACTATTCC CAGAATTCTA GAGATATTTG
206581 GAAAGCAGAA AACTATACTT GCCATGCTGA TGAAGTCCAA TTATTGCTCT TTTAAATACA
206641 TTTAGCTACT TCTGAATATA AAATGAGTAT CTACTAATTA TTTACAAAA CACTTGGTAA
206701 ATATAGAAAG TCACAAAGAA TGAAGTGATC ATCCTGTTTT GTAACCCAGA AATAGTCATT
206761 ACTGGCACTT GTGTGAATCA GTTTCTATTC CTGTATGTGG ATGTGCACAG CGTATCCTGC
206821 TTTGTACACT AGAGTACTAG CATTTTCTTA ATGTAATTCA ATATTGTCCA AAACATTTTA
206881 AAATAGCTTC CATCACAATA ATCTATCAAA TTGACTTGCC AGACTCTCAT TATTAGTTA
206941 ATTTATCTCT AACATTATGC AGTCATGAGT AATACTACAA AGGATATTTT TGGACACAAT
207001 TTTTCATCTA TGCCTTTCTT TATAATCCTT CATCCTAAGG TCACAGATTA TGAATATCTT
207061 TAAAGTACGG ACAAGTCTTT TAAATTTTGT GTGCAAAAAC AGTGCAAAGC CTTGAATGAT
207121 AAAATAGAGG TTTGATATAT GTGTTTTTTT GTTTGTTTGT TTTGAGACGG ATTCTGCTC
207181 TGTCCTCCAA GCTGTAGTGC AGTGGCACGA TCTTGGCTCA CTGCAACCTT TGCCTCTTGG

Figure 1 (Page 64 of 73)

207241 GTTCAAGCAA TTATCCTGCC TCAGCCTCCT TAGTAGCAGG GTCTACAGGC ATGTGCCACC
207301 ACACCCGGCT GTTTTTGTAT TTTTAGTAGA GATGGGGTTT CACCATGTTG GCCAGGATGA
207361 TCTCGAACAC CTGACCTCAA GTGATCCACC CACCTCAGTC TCCCAAAGTG CTGGGATTAC
207421 AGGTGTGAGC CACTGCACCC GGCCGATACA TGTGTTTTTA AAGTCACAGA AATTTTCAGAT
207481 GTCTTGAAGG ATTTTAAGCA ATTTAAAAAA TAAAGTCATA GAAGCTTCAA TTTAGGAATG
207541 AATGGAAAAT TGATGATATT CTTAGGATAT GGATTTTTTC TAAAAGAAAC AAATGTATGC
207601 ATCCCCAAAG ATAATTTGAT TAGTATACAA ATATTAAAT AAACATGTCC ATATTTAGAG
207661 CCATGAATTC TCTTTGCCTG TCACAATAGC TGGATTTATT CACAATTGTA GTAAATTAGTC
207721 CCTGTTTATT ATAATTTTCT AGGTGATATG AAGACTTTGT CAGTCCAAGC AAGTGTCCAC
207781 ATTGTGTGTA GCAAACATGA GAATAAACAT TTAAACTTTT TAAATGTAAT ACATATTAGT
207841 GTTATGTAAT GTCATCCTTC ATGTTCTGAAG GCACATGGAA CATTTGTTCTG GTGGTACAGA
207901 GGGGAGAGAA ACACCATCAG AATGAAAGGA AAGACCGCTC TGGAACCTTC CTCCTTAGCT
207961 CTTGAGCTTA GTTTAATTGT CCTGTCTTAT GGTCTGCTAC AAGCAATACC ACTCTTCACC
208021 TTCGCATGCT TCTCTGTGGT TTGATAAAGT ACATGCAATT TTTCATTAA TTTCTCCAGC
208081 TGCACATAAGA AAGGAGCCTT ATCTTTATTG AACAGATGAG GAAATGAATG ATTAGGAAT
208141 TTAAATGACT AGCTCTAGGT CACACAGCTG GAACCTTACAG CCAGATTTCC TTTTAACAAT
208201 CCTGTAACCA AAAGCATACC AGTAGTGCCC CATAAAATGT AAGTTATAGA GCTGTGTTGG
208261 GTCAAAACTT TTAATGATGC TAAGAGGAGG CAACATTAAC AAGGGGAAAT TATTTGTGTA
208321 TTATGTTTTG GATTATGTTT TCTCCATAGA TAAAAGACTG TCGTAGTAAA AGAGATTCAG
208381 GGCACAGGGA AACTCCACCA CAAAGCGTGG TACCATTTCC CACAGAAGCT AAATGGACGG
208441 GAAGCCTGCC ACCAGGAAAG GTAAAGCCAC TGCTCTTGTT TGCAGGCTAT GTTAATAAGC
208501 TGAAGCTTAT TCCGACACAT TTACACATCT CTGCATCACA CTGACCCTTC GTAAAGATAC
208561 TCCCAGTGTA ACATTGGAGC CAGCTCCAGC CCCTGATCCT GTTGCTTTTTT CCTTAGCCCC
208621 ATGAAATCAT CTGTGAGAAA TTAAGCCAAA TAAGCAATAA ATCCTGGGAT CTAGGGAGTG
208681 GAATAAGTTT TGGGAAAGTC TTTTTTTTTT TTTTTTTTGA CTGAGTCTTG CTCTGTCTCA
208741 CAGGCTGGAG TGCAGTGGTG CGATCTCGGC TCACTGCAAC CTCTGCCCTC CGGGTTCAAG
208801 TGATTCTCCT GCCTCAGCCT CCCGAGTAGC TTGGACTACA GGCACACACC ACCATGCCCCA
208861 GATGAATTTT TGTATTTTTT GTAGAGATGG AGTTTCGCCG TGTTAGCCAG GATGGTCTCG
208921 ATCTCCTGAC CTCGTGATCC ACCGGCCTCG GCCTCCCAA GTGCTGGGAT TACAGGCATG
208981 GGCCACCACG CCTGGCCCCG GAAAGTCATT TTAAACCAAC CTATGTATGA ATCCCTACTA
209041 TAATATTCTC ACCAAGCGGC TGGCTCTTTC TCCTGAGCTT GGAAACCTCC AGTAAAATGG
209101 AAATAATTAT TTCCAGACC ACCACTCTTA TCTGTGAGCT TTTTGGCCA TTTTAAATTA
209161 TTTCTTCCAT TATATTTTTT TCTGTGTCTT CACAGGTTTT CTCTTCTTTT CACTTTAGTG
209221 CTTTTCTTCA AATAAGCAGG AAAAATCCAA TCTATCATGC ACATGGGAAC CCTTTCAATA
209281 TTGGTCTGTG GTTGTTCAT TTTATGGGGA TGCTTTTAAA GAAAAAATTT GTCTTTCAA
209341 TATATTGAAT ATCTTCCAGC ACCACATCAC CTGCAAGCTT TGTAATAATA GTTCTACATA
209401 TTAATTTTTT TTTTTTTTTT GAGATTGAGT CTCATTCTGT CACCCAGGCT GGAGTACAGT
209461 GACATGATCT TGGCTCATTG CAACCTCTGC CTCCTGGGTT CAAGTGATTC TCCTGACTCA
209521 GCCTCCCAG TAGCTGGGAT TACAGGCATG CATCACCATG CCTGGGTAAT TTTGTATTT
209581 TTAGTAGAGA TGGGGTTTCA CCATGTTGAC CAGGCTGGTC TCAAACCTCT GACCTCAAGT
209641 GATCCACCTG CCTTAGCCTC CCAAATGCT GGGACTACAG GCGTGAGCCA CTGCACCCCA
209701 CGTAGTTTTT TTTTTTTTTT AAGTTGAACA TATGTGAAGG CAGGACCTAG TGACACATAG
209761 CAATAACATT TCCAAGTAGA CATTACACTA GGGAAATAGT CGAAGTGCTC ATTTAAAGTA
209821 CCATCTCTCA AATGTATTAA AAGAGAATCC TTGGATGTGC AATACCTTAA TTCAAAGGCA
209881 GCTCGTTATG TATAAACTCT CAAGCTTTGT GATAAACAAA TGTGCATAAC AGATGGGACT
209941 ATTCACCTAC AGCCCAGGGA ATTTTATTGA CGCTGAGAA GTTATGTGAC TGGCTCTGCC
210001 ACTGTCATCC CCATTCATTT CATTTTGGAG CAATATGACA TAAATGCCTT ACATGTGGGT
210061 TTTCTCTATT TATCATGTGT TTCTATCCC CTTGAAAGAT GGCCATATTT GCTTTACTTG
210121 GTTATAAGAT CCCATATTCG CTGTCTTGAA GCCAACCAAA TAATTGACA AAGTGGGTTT
210181 GTAGTGCTGG CTATTTTGGT GAAAAAAGA CAATGAGACT TCATGTGTCA TCCAAAGTTC
210241 TATCAGATCG AGCTGTGAGA GAAAGGAAAA GAAAGGGGTC TCAGTCAGGA TGCTCACTAC
210301 ATACATCTGT GTTGTGTCT AGGTCCAGAT TTCTGTTTAT TACGCTATGG GCTGGCTCTT
210361 ATCATGCACT TCTCAAACCT CACCATGATA ACGCAGCGTG TGAGTCTGAG CATTGCGATC
210421 ATCGCCATGG TGAACACCAC TCAGCAGCAA GGTCTATCTA ATGCCTCCAC TGAGGGGCCCT

Figure 1 (Page 65 of 73)

210481	GTTGCAGATG	CCTTCAATAA	CTCCAGCAT	TCCATCAAGG	AATTTGATAC	AAAGGTAAGT
210541	ATGATGGAAA	ATAGGGCTCT	TTGTTGAGAG	AAAAAACTTT	GAAAGGAAGG	CATGATCTTT
210601	GATTCGTGTG	AGTATGGAAG	TATACATTTT	CAATGACAAA	TAAAAAATGA	CTGGAACACT
210661	TTTTCTTTGA	GACATTGCTT	ACTTCAATAA	TAAAAATAAG	ATTTTCATTGA	GGTTATTATG
210721	ATTATAAGGT	GGGGGAACTG	TAGAGTTAAA	TGTGAAAAAT	TTAAAAATGG	AACAGTTTTAT
210781	GTGATGTCTT	CAATGAAAAA	CTAGGTATTA	CCTGGGCACA	TTCTTATAGG	TTACTCAATC
210841	CTATTCAGTT	CTCTGCCTGT	TTTATTGTTT	CTGAGCAATT	TTATATCCCT	GTAAATTCTA
210901	TATAACCAAT	AGAAATGCAA	ACGATTCTTG	TCCATAGCTT	TGCAAATAAA	TTTTTGCCAAG
210961	AGAAAAATCA	GTTAAAACTT	TTCTCCACTC	ACCTCCCAGT	TGAATTAGCC	AATTTTGCTG
211021	TTTGTTTTGT	TGTTTGTTTT	TTGAGATAGA	GTCTTCCTCT	GTCATTAGCC	CTGGAGTGCA
211081	GTGGCATGAT	CTCAGCTCAC	TGCAGCCTCC	GCCTCCCAGG	TTCAAGAGAT	TTTCCTGTCT
211141	CGGCCTCCCA	AGTAGCTGGG	AGTAAGGGGG	CATGCCACCG	CGGCTGGCTA	ATTTTTGTAT
211201	TTTTAGTAGA	GACAGGGTTT	CACTAGGCTG	GTCTCGAACT	CCTGACCTCA	GGTGATCCAC
211261	CCGCCTCGGC	CTCCCAAAGT	GTTGGGATTA	CAGGTGTGAG	CCACTGTGCC	AGGCTCTGCT
211321	GTATATTTAA	AGTCTATTTT	AGCATTGCTT	CCTGCTTGTT	TTATGCGTGA	TTCTTTTGAGT
211381	TTTCCTTTGA	ACCAGTTATA	ACATCTTACT	TACTTCCTCC	ATTAATCAAT	GAGTTAAATA
211441	AAATCTTTGT	TGTATGTTTA	TTTACATTTT	ATATGAAAA	CATGAATTTA	CCCAATTAAA
211501	AAAAATTATC	TTTAAATPAT	CTTGTAAGT	ACATTTCCCA	TGTCATCCCT	ATAATTCATG
211561	ATTAATGATT	TTATTACATT	GGAGCTAGCT	TATTTACAA	GAGTACATA	ATTTATTGTC
211621	TCCAGTCTTT	CCTCCATTAT	CCCGTCTACA	TATCCACACT	GAGTAGATT	ACTTACTCAGG
211681	AATCTTGGAC	ACCTTCAAGT	TGCCAAACAT	GCAGTGTTCA	CTGGACATGC	TGTGTTCCCT
211741	CAGAAATTTG	GCCTGCTTCT	CAGCACACTC	ACATCTGCTA	TCAATGACCC	ATGGAAAGTT
211801	TTTGCCCTGA	GCAAGCCAGA	GTCCCTGTTA	GTTTCTTTCCA	AATGCTACAA	GTTCACTTTT
211861	GCTATTTTTT	CCGATGAGAT	AAAATTTTCC	TTTTTTGACTT	TCTACAAATC	ATAGTCATTT
211921	TTCAAGGGAT	AGTTCAAGTA	TTGCTTCCTT	TCTGGGACCT	TCCCAAATTA	TTATTTTCTC
211981	CTCTCAAAGT	CTCTGTTTTA	TTTATGTTCA	TCCTCAAATC	TTGATTCTCA	CATGAATCAT
212041	ATACCTTGTA	TTATTTATAG	TTTTTTTTGAG	TGGGTAAAAT	ATTTTCATATT	TTATATTCTT
212101	TGGCTCTCTA	CTTTATAGCA	TGATGCCAGA	TATTTAGGGG	CCTTATTGCA	TTTATTTTTT
212161	ATTTTATTTT	AAAACTTATT	TTATTTTTTTA	TTTATTTATT	TTAAAACTA	TTTATTTTTT
212221	GGTAAATATT	CAGGTAATAT	AATTTATGTA	ATTATTTAGG	AATTTTAGGT	AGTTATTTTT
212281	AAATAATTCA	AATTATTTAT	TGAGTTATAT	CAGAAGAATG	TGATCTTATT	CATTTGTAAT
212341	ATGTGTTTTA	GGAACCTCAGT	TCAGCCAGGG	CAGACCATGA	TTCCCAAAC	TGACTTTTCT
212401	TTTTAAATTA	GCACTGATTT	TGGTTAAGAG	TTTCAAGTAA	TTTTGTGTGT	GTGTTTTTAA
212461	AAATCTTTTG	ATATAAGAGT	CAAGATGTTA	CTCAACTTTT	ACTAGAAGCA	AAATAGAGGA
212521	AGTGCTTTCA	CAGATGAAAT	ATCTCTCAAT	GTTTTCTTCC	ATTTACTTCT	TCCTATTATT
212581	CATCTATATA	ATCATTTTCT	TTACCTCTTT	TCTTCATTTT	TTCTGTTTTT	CTCTCTTCT
212641	ACTAAGACAA	GCAAATTAGG	GGTATAATTG	GTTATTTGGG	AAGGTAGGAA	GAATATAGAG
212701	AGAAACAAAA	ATCAATATTT	TATACTAGGG	TCTCACTAAC	CTCAAGCAAC	TCTGACTGTA
212761	AAGTAGATTT	TCATAATAGG	ACTTCTTGAC	AAAGAGTTTT	CCTATTTTTT	CCCCAGGCCT
212821	CTGTGTATCA	ATGGAGCCCA	GAAACTCAGG	GTATCATCTT	TAGCTCCATC	AACATATGGGA
212881	TAATACTGAC	TCTGATCCCA	AGTGGATATT	TAGCAGGGAT	ATTTGGAGCA	AAAAAAATGC
212941	TTGGTGCTGG	TTTGCTGATC	TCTTCCCTTC	TCACCCTCTT	TACACCACTG	GCTGCTGACT
213001	TCGGAGTGAT	TTTGGTCATC	ATGGTTTCGA	CAGTCCAGGG	CTTGGCCCAG	GTATCCAGAT
213061	ACTTTCTCAT	TCTTGGTGGG	ATCCAGATTT	CTGAATTCTA	CAAAATATCA	AAGGTCTTAA
213121	TGATTTTTCAT	TTTCAAGGAA	GGCATGGACA	GGTCAGTTTA	CTATTTGGGC	AAAGTGGGCT
213181	CCTCCACTTG	AACGAAGCAA	GCTCACCACC	ATTGCAGGAT	CAGGTAAGTG	TGCACAGATG
213241	GGTCATAGCT	TTGTCATCTG	TTCCATCCCA	CTGTGTCTTA	TCTTCTATGA	ATCAAATGGT
213301	TTGGGGGAAGA	GAGAGAAAAA	GTAAGTCTGA	AAAATTCAAC	AATATAAGAC	ACTTGCATCA
213361	CAAAATAGGAA	AGATGTCATCT	GTGCAGTAAA	GACATTGAAG	CTTAGAAGTA	GAAAAAATCA
213421	TTGTGAGCTA	GGTTTTCAGT	CAGAAAAAGC	TTAGTAGTCA	GAAAAGCCTT	AGTAGTCAGA
213481	AAAGCCTTGT	CGGAAAAAGT	TTAAACCTTT	AAGAATTGCA	CACATGGAAA	AAGATCAAGT
213541	AAGCTATATA	TACACCATCT	TAGCAATGAT	TTTGAAGTGA	GAATTAAGGC	TACCACAGCT
213601	CCAGGTGGTA	AGGAGAGAAA	TCAGGCTGGA	AGAGTTTGAA	GTTTCTGTAT	TATTTCTAAGC
213661	TCTTTACTAT	TCTATTATGA	GCTCATTAAT	TCTCACAACA	ACCCTCTCAT	ATAAGTACCA

Figure 1 (Page 66 of 73)

213721	TTTTAAATTC	TTATTTTACA	GAGAAGGGAG	TTAAGGAAGG	TGGAGATTAA	GAAAATTGCC
213781	CAAATACAAA	TAGCCAGCAG	GTGGTAGGTC	TGAGATTTAA	GCCCATGCAG	ATTTTAGCCC
213841	CAGAGCAGAC	ATTCTCAATC	ACTATGCTAG	ACTGCCTTTC	CATGGTATGT	GATCCTACTC
213901	AGGCTCTAC	AGCTTTATCA	TTGCTGTTCT	CCCCAGCCTG	TCGTGCTGAG	AGTATATACT
213961	CGAAGAGCAG	AACTAAAATT	CCATCCAGCT	TCTCACTCCT	AGGTCCACTA	CACAGCTGCA
214021	TCCTGCAGAC	TTTTACCTCA	AGCAACCCCT	CTGCGTTCTT	GCTTCCTTCC	ATCATAGTTG
214081	TAACCATCTC	CTCTATTTGC	AAATACTATC	TGCTGATCTC	TCTCTTCTAG	ACTGGTTTCT
214141	TTCAACCTTC	TTCCCACCAA	AACCAAGTTA	GCTTGCTAAA	ATAAAGATGG	CACATTTTTA
214201	CTCACCCGCT	TGAGAATTTT	CAATGTGTTT	CTTCATGCTT	ACAGAGTAAA	GCCTGACCTC
214261	TTTATTGCAT	GAATACAAAA	GTTCTTAGCC	ATCTGGCCCC	AACCTTGTTT	CACTCAACTC
214321	CCCTGTGCAA	GCATGGCTCC	AGTGGCAGTG	GACATTGGCT	GCTCTCCACA	TAGATTGCGA
214381	CTGCACTTCC	CTCTGGCTCT	GCTCCCGTTA	GTTTATATGC	CTGGAAAGTT	CTTTGCCCTT
214441	GTTCTTGTG	CCAAAATTCC	ATCTATCCTA	TTGCATAGCT	TATGTAAAAA	CTTCCTAAAC
214501	CTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTG	AGACGGTGTC	TCACTCTTTC	GCCCAGGCCG
214561	GACTGCAGTA	GCGCTATCTC	GGCTCACTGC	AAGCTCCGCC	TCCCGGGTTC	ACGCCATTTT
214621	CCTGCCTCAG	CCTCCCGAGT	AGCTGGGACT	ACAGGCGCCT	GCCACCATGA	CCGGCTAATT
214681	TTTTGTATTT	TTAGTAGAGA	CGGGGTTTCA	AGCCAGGATG	GTCTCAATCT	CCTGACCTCG
214741	TGATCCGCCC	GCCTCGGCCT	CCCAAAGTGC	TGGGATTACA	GGCGTGAGCC	ACCGCGCCCC
214801	GCCAAAACCT	CCTAAATCTT	ATAATTATTA	TCAATTTATC	CTCAGATATA	CTTCCACGTA
214861	CATTGTAGTT	TTATTATATT	TATATTTTAC	ATCTTTTTTT	TCAAATTTCA	GTTTGGGACC
214921	CATTAGTGAG	TCATAAAATC	CATTGAGCGG	GTTAAAATCA	TTATTTTAAA	AAATGAATAG
214981	AATAGAATAG	AAATTGTTGG	AGTGCATTGG	ACATGGTAAA	GTTAAATATC	GATTTCATGAA
215041	ACCATCGTTT	GAGGCATATG	TGTGTGGTTG	TATGTACAAG	TGTTTATGCA	TATTGGTGTG
215101	TGTGTTATGT	TACCTGTAA	AATGCATTTT	TTACTATAGG	TCTCTGTGAA	ATATGTGTCT
215161	TGTTGTTTTT	TAATGTAGAC	TTCCAAAGCC	TACATGGCAT	TTCACTAGTG	ACAATCAATT
215221	TTATTACAT	TTTTCTCTCC	AATTGGACCA	GAAGCTCTTT	GAGGGCAGGG	GCTGTATCTT
215281	ACCGATTTTT	GTAAGTCTTT	CATTTCCCTG	CCCTAGCCTC	ATATTAGATC	ATGCAAGAA
215341	GCAACTGTAA	TCACAAGAAA	ATGCTAATGG	GCTGTGATAG	CAGAGAGTTA	CTGTGACAAA
215401	CTAAGGGATT	TAGATTTGGT	CACATTGGTG	TTGAGGAGCC	ATTGAAGAA	CAGAGAGTGT
215461	GTTACTATTA	TTTGTTAATT	TTAATTATAT	CATATTACTT	TACTGGGGAA	AATCTGTGAG
215521	CTATTTTAGA	AATAAATACT	CTCATTTGCC	AATAATTCTA	AGTCTGCCAC	CTCACTGTTG
215581	GGACATTGTT	TAGGGAGGCC	ACGAAGTCTC	AGCCTTTGAT	ATTTTCATAA	GTGTTTTTCT
215641	CCCTTTTTCC	TTTAGGGTCA	GCATTTGGAT	CCTTCATCAT	CCTCTGTGTG	GGGGGACTAA
215701	TCTCACAGGC	CTTGAGCTGG	CCTTTTATCT	TCTACATCTT	TGGTGAGTCA	CTTCTCTTAA
215761	AATCCTAACG	CCTCCATTTT	CTGAGCATCC	ATTTTGGCAC	CTACACCACC	CACATTCTTC
215821	CTATATGAAA	GAAAATGTCC	TTTATCAAAT	GGAAGATGAT	AAAAAATGTC	AACGGTTGGT
215881	ATCATTTTTA	ATCTAGTCAC	ACAACCTGAT	TAACACCTTC	CTGGTGGTTC	TGGGAAGCCA
215941	CACGCACAAG	GTAGAGGAGT	TGACTATTCA	CATGGCACCC	ACCGACTTGT	GATGCAGTCT
216001	TGTCCTTCCA	TATCAAGCAC	CTTCTGCAGA	ATCTCTACCA	CCACATCTGA	AGTGCTGTCT
216061	ATATGCAGTT	AAGATGTCAA	AGATAGTGAA	GTACATTTTC	AATGTGTCTT	CATATTTTCAT
216121	TATAATTATT	ATTTCTGTCC	AAGATGCCCT	TCACCTGTTC	TCTACCAAGT	TAATCTTGCA
216181	AAGTTCAATT	CAAATGTTCC	CTTCCCCATG	GGCCCTTCCA	GGGCTTACCC	TATCAGATTC
216241	TGGCATTCTC	TCCTTTATGA	TATTTCCCTC	CTAGGTTATG	TTGGTGTGTA	ATTATTTATT
216301	TCTCCTTTTC	TTTCCACTAG	ACTGTGAAAT	GCTTGAGGCA	AGGAATCCAT	TCTATGTTTT
216361	CATCACTTGG	GTGTCATCAT	GGTGCCTGAT	TTTTAGCTTT	AAAAATAAAG	AATCAGTGAA
216421	TCCAGTAATT	AGAGGGGATT	TAAAGAAAAC	TAGTCCTCAG	AATCTTTTAA	CATAGAATGT
216481	TCTTCAAATA	AGGAATTCCA	ATAATAAGAC	AATTTTCTAC	ACTTGATTTT	GTTTTTATAG
216541	CCAAATGGTG	TCATTAAATA	TAGTCCTGGC	CTGAATGGCT	TTCTCATTA	TGATGCTAAT
216601	TATTTTGGTT	TGTACATGTT	AACCAGGTAT	TGTACAAAAA	TATTTCTTTT	GGGAATCCAT
216661	AATGGATGTA	TGGCTTGAAT	ACAAATAATA	CTGTCTCTTG	TAAGTGCAAT	GGAAATTTTT
216721	CCCTGCCACA	TGATTTTCATG	GAAGGTTGTT	TCGTGTATGT	ATGACTGCAA	ACCTGACTAT
216781	TCAGATCTTC	CGCAACAAGA	CAACTTATGT	GTGCATTAAG	AAGTTGCTGC	CTAAAATACA
216841	TAACACTGTA	ATCATTTGGAG	ACTTTAAAGT	AATTAATCAG	CTATGCAATG	CCACGCTCCT
216901	GTTATCTCCA	GAGGGCTCTG	ACATTGACAA	ATGGTGGCTT	TCTATTTGAG	ACGTAATATC

Figure 1 (Page 67 of 73)

216961	TAAAAAGCTT	TAACAGGTTT	GTAAGAAGGAT	TGAAAGAAAAG	AATGGGAACA	TTTAGGTCCT
217021	TATGGTAGAA	TAAGCATTA	TTGATTAGTG	TGTAGAAGGG	AGAGGCATGC	CACTTCAGAG
217081	GAAACTTCCT	TCCCCAGTA	AACAAATCTA	CCTAAAAACT	AATTTTATCC	CTTCTTCCCA
217141	GGTAGCACTG	GCTGTGTCTG	CTGTCTCCTA	TGGTTCACAG	TGATTTATGA	TGACCCCATG
217201	CATCACCCGT	GCATAAGTGT	TAGGGAAAAG	GAGCACATCC	TGTCTCACT	GGCTCAACAG
217261	GTACAGTGCA	CACCTTGTAC	CTGTGGCCCA	TGCAGAGGTC	TCTAGGGCAG	GGTGTGGATC
217321	TCCTCTGAGA	GGCACCATCT	TGGCTGCTCT	AATACTCATG	CTGATTAGAT	CTTTCTTTTC
217381	AGCCCAGTTC	TCC'TGGACGA	GCTGTCCCCA	TAAAGGCGAT	GGTCACATGC	CTACCACTTT
217441	GGGCCATTTT	CCTGGGT'TTT	TTCAGCCATT	TCTGGTTGTG	CACCATCATC	CTAACATACC
217501	TACCAACGTA	TATCAGTACT	CTGCTCCATG	TTAACATCAG	AGATGTGAGT	TTACTTCCTA
217561	TACTTCTACG	AAAATGATAA	TGGTAATAAG	GAGAAACAGT	TCTGTGTTAC	CTATTACATT
217621	CTGGCTTTAC	ATATAACCAT	TAATTTAACC	TTTACAATGA	CCTTGAGAGA	GGCATTGTTA
217681	TAATTCCTTT	TTTACAGATG	TGGAAACAGG	ACACTTAGAG	GTGAGATAAC	TTGCCCCAGG
217741	TTGCACAATA	CTAAGTGATA	GAGCTGCTGC	AGCATCCATA	TTCTTAACCA	CTAGGCATGG
217801	CTACCACACC	AGCTGATTCC	AAAGCTTCTT	TTAGAAAATA	TATTGCTGGG	CCAGGCATGG
217861	TGGCTCATGC	CTGTAATTCC	AGCACTTTGG	GAGGCCGAGG	CAGGCAGATC	ATGAGGTCAG
217921	GAATGCAAGA	CCAGCCTGAC	CAATATGGTT	TACTAAAATAT	CATCTACTAA	AAATACAAAA
217981	ATTAGCCAGG	TGTGGTGGCA	GGCACCTGTA	ATCCCAGCTA	TTCAGGAGGC	TGAGACAGGA
218041	GAATCGCTTG	AACCCAGGAG	GTGGAGGTTG	CATTGAGCCA	AGATCATGCC	ACTGCACTCC
218101	AGCCTGGGCG	ACAGAGTAAG	ACTCCGTTTC	AAAAACAAAA	AACCCAAGAA	ATTAATATTG
218161	CTTTTATCTG	GAGCCCAGAG	TGATGCAGCT	TCTGGCCCTC	TTATCTGAGA	CAGTGTCTCT
218221	TTAGTGTGAA	AAAGGATGCT	AATTTTCCCC	CAAACAACCC	ACAGTATCAT	GGGGGTAAAGT
218281	TAATGGCTGG	TCTGTGTAAC	TGACAAATTT	TGGTGCTAAC	GTATCTCTAT	AACTACTCTG
218341	TATAAACTTC	CTTCTTTCAG	AGTGAGGTTT	TGTCCCTCCCT	GCCTTTTATT	GCTGCTGCAA
218401	GCTGTACAAT	TTTAGGAGGT	CAGCTGGCAG	ATTTCCCTTTT	GTCCAGGAAT	CTTCTCAGAT
218461	TGATCACTGT	GCGAAAGCTC	TTTTCATCTC	TTGGTAAGGA	TAAGCGTGTG	GGCCCATTTA
218521	ACCAATCCCT	TTTCTGCACA	TGGTCTCAGA	GGGTTCCTTG	ACAGCATGTC	CTCATTGCCC
218581	AGGGCTCCTC	CTTCCATCAA	TATGTGCTGT	GGCCCTGCC	TTTGTGGCCT	CCAGTTACGT
218641	GATAACCATT	ATTTTGTCTGA	TACTTATTC	TGGGACCAGT	AACCTATGTG	ACTCAGGGTT
218701	TATCATCAAC	ACCTTAGATA	TGCCCCCAG	GTAAGAGCTC	TACCTGTTTT	TTCCCCCTCT
218761	CCAGACCCCT	CCAGAGGTGT	TAGACCTCAG	TGGTCGCCGT	GAAACTCTTT	TATGTTTACTG
218821	ACATTGCACT	AATGGCAGAA	TGACAAATAT	CTACAAATAT	CTGTCTGTGG	CCATTTTTTAG
218881	AACAACAAAT	GTGGCATTTT	TAGAAACAAC	ATTTCCAATC	TTGGCCAGTA	ATCATTTTGA
218941	CAAAAACCTT	CCCAAGCTTC	CCTAACAGAG	ATTGAACTGT	GTATGCTGGG	AAAAGGCCCA
219001	CACACAGGTG	ATTTGGAAAA	GTTTCCATGG	TGTTGTTTCAT	ATTAGCTACC	ATATATATAT
219061	ATATATATAT	ATATATATAT	ATACAGTCAC	AATAAGCCAG	CTCCTGTGCC	AAGACTTGCC
219121	ATATATCAAC	ACATCTAATC	CTCACAGTTA	TATTAGGTAG	GCCCTATTGT	TATCCCCATT
219181	TTATAAGGGA	GAAGGCTGAG	GCACAAGGAG	GTTAAATGGT	GTGACTATGG	TCACATAAAG
219241	GCAGAGCCAG	GATTTGGACT	GGGGGAGTCT	GGCTTTGGAG	TCTGTGTCTT	GCCCGTTGCA
219301	CAAAC'TGGCT	TCTCCACTGA	GCAGCCGGGG	TAAAGAAAACG	TGGTTCCCAG	AGAGACTGCA
219361	TTGCTCCCTG	GTTATTGACT	TGGTAGATTG	GTAATTTTCAG	GTTTGGCAAA	TAGACATTGC
219421	CCTGAATGTC	TTTAGGTGAA	TGAAAAACTG	CATTAAGCAA	AATGACTTTG	CCATTAGAGC
219481	TGAATTGCAT	TAAAGTTGAG	TTGCTGCAGA	AGCTGTAGGT	GGCTTTCTAT	ATAAAATCAT
219541	TTATAAAATC	ATCTTCCCAC	AGATATGCAA	GTTTCCTCAT	GGGAATCTCA	AGGGGATTTG
219601	GGCTCATCGC	AGGAATCATC	TCTTCCACTG	CCACTGGATT	CCTCATCAGT	CAGGTTGGGC
219661	CAGTTTATTG	AACATCTTCA	AGTGGCAGGT	ATTGTTT'TAG	GTGTTGGAGA	TACACACGGT
219721	GCTCTAAAGA	TCTGGATGGC	AACACAATTA	CTCTATTTAC	ATGAGCCTCT	AAATCAGACT
219781	CTGGTAGGTC	AGATTTCCCA	GAGGAAGAAA	AATATAAGCT	TATTTTCTCA	AGATGAATAG
219841	ATGTTAGATT	GATTAATAATG	AGCTGTTCCG	GTGCAGAAGA	CAGCACGTGT	GACTTCCTAG
219901	AGGTACATGA	GCATGAAACA	GTTCTTAGTT	ATGACCAGAA	TGAAAGACAC	ATGTCAAGGA
219961	ATAGCAAGAG	ACGAAGACAG	AGGGGCAAAA	GAAGATCATG	AAGAATATGT	TCAGACTAAT
220021	CCAATTTTTTA	AAAAATCACA	AAAGGGAAAC	AAAGTGTCTT	AGGCCAGTTT	AAAGATAATT
220081	TAATGTCTGG	AAACAGATCG	GCTGTGAGAC	ATTGCAAGGA	GGCTTGCTCG	GTGTTTGGAA
220141	ATGCAGGCTC	ATGAGGAAGA	TGAAAAGACA	GACCCAGGCA	GGGATGGAAG	GACTGACGAG

Figure 1 (Page 68 of 73)

220201	AACCAACTTA	CAAAGAGAAG	TTTTGTTTTT	ACTACATTTT	TATGTGATCA	AGTTCCCAGG
220261	TAAATATTTG	ACTAAACTGC	TAGGAATCCA	CTGTGACTAT	AATGCTGGAA	ATGACTTAGT
220321	AGGGCTTTCT	GAGGAGGGTC	ACACAGAAGA	CCAAAGAGAA	CTCATGTTGA	ATTGAGATGG
220381	GTTGTAGTGA	TAGTTGTCAA	CAGCCAATAC	AGAAAACAAA	AAAAACAAA	CAAACAGCAA
220441	CAACAACAAC	AAAAAAAAAC	AGAGAAGACA	CAAACACAAT	GCCACAATGC	CATTTTAGGC
220501	ATAATTTTAA	ATGAGTAATA	TTATATGTTG	AAATCCAAAT	TTTCAGAAAA	ACATTAGTGT
220561	ATTTTATTTT	TGTTTAAAGA	AATAACCATC	TCAACTCAGA	ACCCCATGTG	CATTTTGGCC
220621	ATTTTGTTTT	CAATAGTTTC	ATAAACTTTC	TTAAGTAACT	ACTGCACATT	GTTCCCTATA
220681	TTCTTGTTGA	TCAACATTGC	AATACACAAC	TGGGAGGGCT	ACTAGAAGTG	GTGTAGAAGG
220741	AACTTGTTGAG	ATTGATCATT	TTCTCTGTTT	TTTACATCTA	GGATTTTGAG	TCTGGTTGGA
220801	GGAATGTCCT	TTTCCTGTCT	GCTGCAGTCA	ACATGTTTGG	CCTGGTCTTT	TACCTCACGT
220861	TTGGACAAGC	AGAACTTCAA	GACTGGGCCA	AAGAGAGGAC	CCTTACCCGC	CTCTGAGGAC
220921	ATAAAGTTAC	AAACTTAAAT	GTGGTACTGA	GCATGAACTT	TTTAAACATT	TTTTACTTCT
220981	CTCCATATTG	CTGACCATAG	ACTCAGCAGT	TCTTAACTCT	GGCTGTGTGT	TAGTCTTCCC
221041	TGGGGAGCCT	TTATAAGACA	CTGATACTTG	GGACCCACTC	CAGAGATTCT	GAATGAATTG
221101	GTCTGGGGTG	GAACCCAGAT	ACTACTAATT	TTTAGATACT	CCTTAGAGGT	TTCTAGCATG
221161	CGCCCGGGTG	TGACAACAGC	TGGACAAACT	TGAAAAAGTCA	ATTTCATGTG	CCTTTGAATT
221221	TTCTCATATG	GAAAGTACTA	AATAAATAAA	AATTCATGTG	AAAATGATCA	CTGATAAATA
221281	TCCTCATGGT	GGGCGAGGTT	ATTGGATGCA	GAGAAGATCT	GCTCGGAATT	GTAGCCATAT
221341	GTTACAGATC	TCAGCACCGA	TCGGAAGTGT	AAAGCTATAA	TCCCCAGAAT	TAAAGTTTTT
221401	ATTATTTTTT	ATACATTGTA	AAACATAGAC	GTTTATTTAT	GTGATTAAAT	TCTATTAAAA
221461	TTTACATGCT	AAAAATAAAT	AGACCATTTT	CAAATTATTT	AGATCCAGAT	ATTTCCATCA
221521	GATTAAACAG	ATATTTATTT	ATCCTAGCCC	AATTGCAAGA	GATTAATGAT	GAGAAAATGA
221581	CCAATACAAG	ATTAAATAAA	TGAGGTTAAC	TTAGAAATCA	AGGACAGAGA	AGATAGAAGT
221641	GGAAGGCTTG	TATTTGTGAGA	AGAATGAATG	TGAAGGAAGG	CAATGTAGAC	ACTTCCAGAA
221701	GGGATAGCAA	TATAGTTTAG	ACCATATAAT	GAAAAATTGA	GAGAGATGAC	AGAGACACTT
221761	TCAAGTGAAG	TGACAATTTA	TATGGGGGAG	AAAAATATTG	AAGACATAAC	AAGATGAGAA
221821	AAGGCATAGA	AATGTATCAC	ATACAAGGCA	TAGAAGTGTA	TCACATACAA	GAGAAGTTCC
221881	TTTTGAGCGT	AGAAAAAGAT	AATTTAACCT	TCTTCATATT	TTTCTTACTT	TCCCAAGATA
221941	CTCAGATAGG	CAGCGTCAAC	TCTAACAGGA	ATTAATTTGG	CTCCTAACAC	TTAAGACATA
222001	TCCTTTAGTT	TGTCTCCTCA	CACAGAAGTA	ATTCTGGTTT	TGCCACAACA	TGCTTAGAGA
222061	AGAAGTTCCC	ACCATATTTT	AAATCCTATT	AAAAAACTGC	TTGGACAAGA	ACCTTGAGGT
222121	AATTCAGCAG	ATGAAGAGAA	TCTCCTAATG	CAAATCAATG	GGTATTTTTG	AGCAAGTTTT
222181	TCAGAAAAAC	AGAGTGTGAG	GCCCTGAGGG	TGGTACTAAG	ATGAGAACAT	TGATTTTGCC
222241	TTTCATGATAT	TGACAACACA	AAGAGGAAAG	GGGGTTTGCA	GAAAACTAAA	AGAAGAAGTA
222301	GAAGAAAAAA	GAAAGACATA	GTATAATAGG	TAGTCAAATT	ATGTACAGAA	AAAAGAGAAA
222361	AAAAAAACAA	AAAAGGGTGG	GGGACAGACA	ACCCAATAA	AAAATGGGCC	AATGACTTGA
222421	ACAGGGACTT	CATAAAAGAG	AAAATGTAAG	TGGCTCCTTA	ACATATAAAA	AGATGTTCAA
222481	CTTCATTAGT	CATTACAGAA	ATGAAAATCA	AACTACAAT	GAAATACCAC	TATAAAATTA
222541	ACTAATGGAT	AAAATGAAAG	GAGATGGAAA	ACAAAATGTT	GCCAGACATG	TGGAGCAACT
222601	GGAACTTTCA	TACGTTACGA	ATGTGAACTT	TGGAAAGCTG	CTCGGCAATA	TCTCCTAAAG
222661	CTAAATGTAC	AATCCAGTGC	ACTCAAACAT	TTTACTTAGA	AATGCACATA	TACATCCATA
222721	AAACATGTAC	AACAATGTTT	ATAGGAGCAC	TATCTGTAAT	AGCCTGAACA	GGAAGTTGTC
222781	TGTTAAAAAA	AGAATGAGTA	AATAAACAC	GGTCTATTTG	TATAGCAATG	AGAATTAACA
222841	GACCCCAATA	TATAATAGAT	GAATGGGTCT	CATAAGCACA	ATATTGATTA	AAGGAAGACA
222901	AAACGCACAT	TCTTTTAAAG	GTTTATAAAA	TACTTTTTTA	AAACAGCTAC	AACCAATCTG
222961	TCCTGTTAAA	AATCAGTGAG	CGATTTCCCT	TGTGCAGGGA	TGGGGGTTGT	GGCTGGATGG
223021	ATGGTACTTA	AGAAGTGCTC	CTGGGGTACT	AGAAATATTT	TATTTCTTGA	CTTGGATGTG
223081	TGTTTACTTT	GTGAATATTG	TACATTTATG	ATTTGTGCAC	GTTTATGAAT	GTAGAAAATA
223141	AAACAGAAAG	CAAATTCAAA	GTATCATCCT	TTTGAGAGCT	TCTGCTCTGA	CTTCGTTTTG
223201	ACCAATGGAG	CAGTTGGGAA	GGGGTCTTGG	TCCTTCGGTC	CTTTGCTTTT	TTTTTTTTTT
223261	TTTTTTTTTT	TAGACAGAGT	CTTACTCTGT	CGCCCGGGCT	GGAGTGCAGT	GGCTCGATCT
223321	TAGCTCACTG	AAAGCTTTGC	CTCCCGGGTT	CATGCCATTC	TCCTGCCTCA	GCCTCCCCAG
223381	TAGCTGGGAC	TACAGGCACC	TGCCACCATG	CCCGGCTAAT	TTTTTGTATT	TTTTAGTAGA

Figure 1 (Page 69 of 73)

223441 GACGGGGTTT CACCATGTTA GCCAGGATGG TCTCGATCTC CTGACCTCGT GATCCGCCCCA
223501 CCTGAGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGCGCCCCG CCCCTGGTCC
223561 TCTGCTTTCA TGTTCCTCTT GGTCCCTGTC CTCCTCCTCT TTTGTTGGAA CTTCCAGTAT
223621 CAGAGCAGGA AGGAAGGCAA TGGGTCAATC GATGCTGTCA GCTTTTGGAT CAAACTGCAA
223681 GTTCTCAAAC AGCAAAATTA ATGAGCTCAG GCTTTGAAGA AACCATGACC CTGAAAGCAT
223741 CAGTTGCTTC CAATTGCATC AGTTGCCACG GGTGATAAGA ACAATGATGA CTCAGAATGC
223801 CTAGGTTTTTC CCAGCAGCTT CTCTGAGGTT TCCCAGCAG CTCTCTGAT TGATTCTGA
223861 CAGATGACTT CGGTGTGTCA GACTTTCAGG GTATCTTTCC TTATGTGATG GTTTGAGGAA
223921 GAGTTACCAT TCACATTCCCT AATGGCTTCA GAATAGATGC AATTGTGAAC TGATAGGAAA
223981 CATTCTAAT TCATCTCCCC TCCCCATCCC TAAAGGATTG TTTCTAACAA TAGTCATGAA
224041 AATTAATTCA CTTTTCTCAA ATAGTTTAT TGTACCTACC TAATGATGAG ATGACTTACT
224101 TTTTCTCCTT GACTGTTAAA TATTATGAAT TATATTAATG TATTTCTTAA TGTTGAGCTT
224161 TCCCTTGAAT ATTCTTTTGA TGTACGACAG AATTTGATTC ACTAATAGTT TATTTAGGAC
224221 TTTGGCTGAT GTACTGATAT ATGAGATTGG CTCTGTATGC ATACATGTGT TTTGTGTATC
224281 TTTTTTGTGT CTGGATATGG AGCTTATGCT GATTTCAAAA ACAAGAAAGG AGAACTTTCC
224341 TTTTTCCCCA TTACTCTGAA AAAGATTGAC TAGAATGGAA TTTTATAAAT TGCTGTGTGT
224401 ATTTGAAAGC TTGAAAGCAT TGGTTTGTAA AAATCATGCA GGCTGAAAGC CATTTTGAGG
224461 AGACTTTGAT AACTTTCTCA ATTTCTTCA GTTACTGGTC TTTTAAGGGG TTTTATATTT
224521 TTCTTTGATC AATTTTGACC ATTTATGTTA TCTTGGAGGA TCATCTATTT TACACACTAT
224581 TTAAAGTATA TTTGCAAAAA TTCAACTGTT TTATCAGGCT ATCTTTTTTAA TAATATATTC
224641 ATTTTATCTA TATCTGAGGT TTTAGCTTCT TTGTACTTCT GACCCAATTG CATGTGTGCT
224701 TTCTTTCTCC TTCATTAGAC TACTTAGTCA TTTACTAATT TTAAGAATAG CTTGTCTTTT
224761 ATTTATTTAC TTATTTATTT TTGAGACGGA GTCTCACTCT GTCACCCAGG CTGGAGTGCA
224821 GTGGCGCGAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGTGAT TCTCCTGCCCT
224881 CAGACTCCCG AGTAGCTGGG ATTACAGTCA TGCACCACCA TGCTGGCTA ATTTCTGTAT
224941 TTTTAATAGA GATGGGGTTT TGCTATGTTG GCCAAGCTGG TCTCAAACTC CTGACCTTAG
225001 ATGATCTACC CACCTTGGCC TCCCAAAGTG CTGGGATTAC AGGCATGAGC CACTGCGCCC
225061 AGCCCTGCTT GTCTTTTAT TTTATATTTG ATTAGCTTTA TCTTTTATCA AGCTTATGTC
225121 CTATTTCCCT TTGCTTTACT TCATATAAAT TTTGTTTGG ATAGTTTAT TATTTTTCAT
225181 TTAATTATGA AACAGTTAA AGCTTAGAGG AAAATTGCTC CTCTAAGTCC AATTTTGTGG
225241 GCAGATTACA TTTTGTGTGT TTGTGCTCCC AAATTCATTG TTCTTTTAA GCTTTATTTT
225301 TCAAGTTAAT AACCTATATA GTAAAAAAGT GGCTGTTGAC TCTCAGCTTT TTTTTTTTTT
225361 TTTTTTTTTT GTAGATACAG GGATCTTGCT GTGTTGCTCA GGCTGGTCTG AAAGTGTGG
225421 CTTCAAGGGA TCCTCTGCC TTGGTCTCAC AAAATGCTGG GATGACAGAC ATGAGACACC
225481 ATGCCTAGCC ATGTCTCTCT CCTTATATAT AATAAGAAAA CAGACACACT GAGGCATCCT
225541 ATCATCTCAC TCTTGGTTTC ACTACTGTTT TCTGGAAGTT TTGCTCTGAC CTTTTCAGT
225601 TAATGTATTA ATTTTGCATT GAGTAGTTTC CATAGAAGAA TTATAGCATT TGCATTCTGT
225661 TGGGTATTAT ACTTTTCACT GTTATTTGAA CATAATTTGA GGGCTGAAAC CAAGATGAGG
225721 CAAGTGAGGT GCCCAGGAAG CAATATTTAA GGAGGCATCC TTTCTTAGGC TCATGCAAGA
225781 ACAGAATTGG CACATGAGAG TGAGTGCCCT CTTAATTTTG AGTGCTGGAC ACTTCTTGCT
225841 CACTTAGCAT ACCCCTGGAC AATGAAAGT TTTTGTGTTT GTTTTTCAT GTCCATCCTT
225901 TATCCTTCTT CATCTCAAAA CATTTCAATG GAGTATTTTT TTGGAGCAGT ACTTGGATGA
225961 GCCTCTGAGT CCCACAGTAG CTGAGAATTT ATTTTCATAGT ACTCTTTATG ATCACTGTGG
226021 AGCCTTAAAA CATGTGAATA TTAACCTTAGC TGGGAACAGA AATTTTGTTC CACAATTTGT
226081 CTTATTCAGA ACAGTATTGA CTTCCTGCTA GTCTCTCTG ATGTCCAATA TGAGGAAGTC
226141 TAGTTAGCCA GCTACTTTTT GTAGGAGAGC TATGTTTAGG CTAGGTGCTA TAGGATTCTC
226201 TTTATCCTGG AATTCCTTCA CCAAGATGTG CCAAGGTGTT AATCATTTTC TCTTGCTTTT
226261 TGGCTGGTGG TCTTAGAGTT TCCTTCGATT TTGTTTATTT TAGTGATTGT CCTCAATTTG
226321 TTTTCTTTAC TAAGAATCTC TCTTCTATTT ATCTGTATGG TAAAACCTTG TTGCCATCTT
226381 TTCTGGTTTC TGCTGACTTT CATTTTGGGA CCTTTTACTT TGCTTTCTCC ATGGACTTTT
226441 TGGTAGTGGA GGCAGGCAAA CACTTTCCAA AGTCTTTCTC AATTTCCATC AATTTCAACT
226501 TATTTCTTAA AATTGCCTCA GAATGTGCCT ATGTCCACAA TATCCCTCCT TCCACTTTAG
226561 AAAGGAAAGG CATCCACACT TTATTTAGGT GCAATGCCTG AAGTGTAAC ACTTTCTGGT
226621 TGTCAACAAA GGAGTACTTC CAAATATTGG TTTGGGGATA ACCTGCTAAT GATTAAACACA

Figure 1 (Page 70 of 73)

226681 TTCACCTTGG CTCTTGTTTT GCCTGCTCCC TCTTCTTTTA TCTGCTGTGT GTATTTTTTTT
226741 TAATCACTGA GAATATGCAC AGTATTGTAT GTTTTATTAT AAGAGAGGAC TGGCCAGAGT
226801 GGAATGTTC TGAATTCAGA ATAAGTGAAG CAGTACAGGA TAGGAAGTCA TTCTTTCAAA
226861 TGAAGCTGGC ATATTTTCCC AGAGCACCAA ATTTCAATAT ATATTTAAAA AACTTGATAT
226921 GAATGATACA ATAAAGTGGT TAGAACTTTT ATTTAAATAA ACTTATGTCA TGAAATACTT
226981 ATTCTAATTA TAGTCACTCT TCATCTTATT TCATCTTATA ACATGTTTTA TGTTTTCTTT
227041 TATTTACAAA ACAATTTATT TTTTGATGAA AAGTTTTAGA AATCAAGTTA AAAATATTCA
227101 AAGGAATGCC TAAAGTTTTT AAAATTCTTT TACATGTTGT ACAATCAAAA GAGTCTGAAG
227161 ACCATTTAGC TATCCAAATT GTTTATTTTT AAGCAGTATC CCTTCTAATA TTTACTATTT
227221 ATAATCCTTA AAAATTTGCC TTAGCACAGG AGAATTGCTT GAACCCAGGA GACGGAGGTT
227281 GCAGTGAGC AACACAGTGC CACTGCCCTC CAGCCTCGGC GACAGAGTGA GACTCTGTCT
227341 CAAAAAAAAA AAAAAAAAAA AAAAAAAAAA GCCAAAAACA AATAAACAAA CAAAAAATC
227401 CGCCTTAACA TTATTTGTTC ATTAATAAAT TTCTTTAATA CTACTAGTTT CCCTTTCCCT
227461 TCAGCCCAT TGCATATTTT GATTTTTATC ACTTGCTTTG TAGGACATAT GAGGTTTTTG
227521 TTTTTTTTTT TTTTGGAGA TGCAGTCTCC CTCTGTTGCC CGTGCTGGAG TGCAATGGCG
227581 CAATCTTGGC TCACTGCAAC CTCTGCCTCC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT
227641 TCCAAGTAGC TGGGATTACA GGCACCCACT ACCACGCCTG GCTAATTTTT GTATTTCTGG
227701 TAGAGACGGG GTTTCACCAT GTTGCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
227761 CACAATCCTT GGCCTCCCAA AGTGCTATGA TTACAAGCAT GAGCCACCTG CCCAGCCAGA
227821 ATATATGTTT ATTTTGAGTC CTTTAACAAA GTCATAAGAA TTTTAGGAAT TCAGTTACTT
227881 TCTTGAGAAA ATCTCTGAAA AGATGCCAAT AATTTGTAGC CAATTATATT GATTTCTCTT
227941 TTTCATATTG AGAATTGTTT TTTAAAAAGT TTGTATGTGT GAAGATTTTT GCAGTGTAGT
228001 TAAAGAAACC ACCTGTGTGT TGGTTAAGCC ATAAGTACAT GTATTCAAAT AAATTGAGGT
228061 GGGGTACTC TGAGAATCAA AGGAAAACCT GAAGAAACAG GCAGCCTCAA AAGGTCTTAG
228121 CTGTAGCAAC TTGCTCCATT GTTGAAATAA ATAGGCTTGA ACTTGTATTT TCCCTCTACT
228181 CAACATTTAA GGTCTCAGAA GATAATATAA TTGGTGAAAT TTAAGTAAAG TGCTACTCT
228241 TTTGCTTTAA CAAACCCTAG AGAGCTGGTA GGCAGAGCCT CAACAGACCG TTTTAGCTTC
228301 CAAAGGGAGT TCAGGACACC ATGATTACAG ACCACAATAC ATCACACATA ATTGAGAAAA
228361 GATAGTTCCA CCAAATAAAG TTGAAATGCT GACAAGAAGG GGTAAAGAAAT CTTGGAAATA
228421 AGTTTATATA AAATTTATTT TTTCTTTTTT TATTGTTATG GAATAGGACC AGTTCCTACT
228481 AAGCCACCCA TTTGCCAAAA TAAAGTGAGA ATCGTTTCTT TTGGGGACTC TCCTTTGTAG
228541 CTCCAAGTGC CACTAACAAT TCTTAGGACC TGAGCTATAA GCCAGGTGAT TTCAGTTAAT
228601 ATGATCAATT ATTTCAATTA AATGGCTCTA ATGTGCAGAG GGAACGGAGC CCATCAGCAT
228661 TCCCTGCAGG GAAGTGCAGT GGCTTTTATC AACTTGAACA GCTAGCTTTC AACTGTTTTG
228721 AAATCACTTT CAGGGTGGTC ATGTAGTTGC TTTTGTGAAA TCAGAAGATG ATTCTGCCTC
228781 TTTTAATATG TGACTCCTCA GATTCAGAAA GTGCTCGCTA GTCTTAAGAG TGAATTACCC
228841 TCAGTGGTCC AGCGCTTATG AACCACATC TAACCCTATC CCCTGGGGGA ACTATCAGAG
228901 AAATTGGTGC CATGGACATA AGAGGAAGGC ACAGTGAAGC AGAGAGCCCC GCATGATGAA
228961 AATCAGTGGA CAGCATCATT ATTTACAAC TTTGTAATCAC CCAGGAGCAT GAAAATCCAG
229021 GCCAATCTGG CACCATGAGC TCTAATTTTT GTTGGAGTTC TTGGAACCGA TTCTGATGAA
229081 TGAAGTTTGA GCCATTTTAG AGTGTGGCAT ACGTGGCTGC TGGCATAACAG AGGTTGGATG
229141 TAAACGGGCC TTTGCCCTCT CTTATGAACA TAGACAGGAA CTAAACTGTG TCACATAGGT
229201 TCCAAATGGT GGCCTGAATA CTATTTACAA CTAAGGTACA ATGAAATTTGA GTAAGTCTTT
229261 TCCTCTTTTG CAGATACCAT CATTATTCAT ATATTTCTTC AAAGTTAACT ATTTGTATTT
229321 GGTAAATTTT AATAGAAATG TAATAATTGC TTCTCAAGTT TAGTCTTTAG TCTTAAGGTT
229381 GATGCTCTCC ATGTCCTTCC AAAAAAAGGT ATGTTGCTTT TATTATATCC TCGCCTTCAG
229441 ATGGGATTAT TCCATTTTGT TCTTTGTTAA TATATACTTT GAGCCACTTT TTTTGTGGCT
229501 CTGGGTGAGA TGCTATAGGT ACAATGACAA GTGATACGTG TGTGTGCCCT GTCACAAAAG
229561 TGGATAGCCT AAGTGGTGAC TTTTACCTCC ACTCCAAATA TATGTATCAC ACACCAGCCG
229621 TATGCCAGGC ACCACTCTAG GTGCTAGGGA TACAGCAGTA AACAGACAAA TGCAACCCCT
229681 GCCCATGTGA AAGAGAATAA GACAATAAAT AAGTAAAGTG CATGTTATAT GGAGGTGGCA
229741 AATGCTAAAA AGAAAAATTA AGCAGGCAAG AGGACTCAT TTTTGTGGTA CATTTGGGTA
229801 AAAGCCCATG TATATATGTT CTATTGGTTT TATTTCTCTG GAGAGCCCTG ACTAATACAC
229861 AATGACTTTG AGAAGTTACT GGCTTTTGAT TTATCACACT ATTCGGAGTG CTGAGAGCCT

Figure 1 (Page 71 of 73)

229921	TCTTAGTGTG	TATTCAGTGT	TTTAAGAGAG	CTTGTGGATG	AATAATAAAT	AGGACAAAAT
229981	TTATCCAAAC	TTAAGCCTTG	CTTTAGGTAA	AAGGGCTCCT	CTTACAAGGT	AGAAGGTTAT
230041	TATTTGGCAT	TTAAATCCAA	CTGAAGACTA	ATAAGACTAA	TTAATTAAAA	GTTTTTAAAT
230101	CACAAC TGGG	TGCAAAATAA	ATGGAAC TGC	CATGCTCGCC	AAGTGTGCAT	GAGTGGTGTG
230161	CATGGGAGAC	AGCACGAAGC	TAATCCCAC T	CATCTTG CAG	GTTGCTCCAT	TTTTCTCCTA
230221	AAATCAGTAA	GACAGAAGCT	GGTCAGATTA	TCAAGAGCCC	TAGTTAAACA	CAGCAGTAGC
230281	ATTTGGAAGG	GGTTGCTCTC	ATTAGGCAGT	GCCTGACCAC	AACAAGAGAT	GAACAAGCCC
230341	TGTATCTGAA	GCCATCATGC	CTAGTTATGG	TCCCCCACTG	TTCATGATGC	CTGAAAGGGA
230401	GGCCCCCTGC	ACCCTAGAAA	GCTGGGTGGG	TTCTACTGTC	TGCTTTACTG	CTAAAAACCC
230461	CTTCTTTTGG	ATCTGGACTT	TACCTCTATC	TGATTTTTTT	TTCTAATATA	TGATTTGGCA
230521	CTGAGTCTGT	CAC TGTGCT	AAC TCAGCAG	TTCTAGGGTC	ATTGCCCCAT	TGCCTCACAG
230581	AAAGAATTTT	ATAGCTTCCA	GCATCCTCTC	TCCTTCATTA	TACTTTGATT	TCAGCATTGC
230641	TATTTTTTCT	CTTGGGTGTT	GCAGCTCTCT	CTCTCCTTCC	CATGTCCTTG	TGGTTTTCTG
230701	CTAACTCCTG	CTTTTTTTCT	TTTTTTTTTTT	TTGAGACGGA	GTCTCGTTCT	GTCACCCAGG
230761	CTGGAGTGCA	GTGGCACAAT	CTCGGCTCAC	TGCAACCTCC	GCCTCCCGGG	TTCAAGCTAT
230821	TCTCCTGCCT	CAGCCTCCCA	AGTAGCTGGG	ACTACAGGCG	CTCACCACTA	TGCCCCACTA
230881	ATTTTTGTAT	TTTTAGTATT	GCTGTCATCA	ATCCACATGT	CCAGAAGCAC	CTAGAAACTC
230941	TAATTCCTTG	TAGGTATCAA	ACCCTAGGAC	TCTTTCCTCT	AATCACAATA	TATAATCCCT
231001	GATTCCTCAA	CACGGTCTTT	TCATATACAT	TTTCCACTGT	ACATACTTTC	TGACCTGGAA
231061	AGCTCTTACA	CAAACACGCC	CTCCCCTAGG	AAGCCTTTAT	AAATGTTCCC	AGGAAGAATC
231121	AGTCACCCAA	CAGTGTCTTT	GTCACATCTT	AGGTTCTACA	CCTTTATTTG	TTCTATCTGA
231181	ATGTAATCTC	CCAGAGGGTG	TTATCATCTT	TTTTTTTGAG	ATGGAATCTT	GCTTTGCTGC
231241	CCAGGCTGGA	GTGCAGTGGC	ATGATCTCGG	CTCACAGCAA	CCTCCACCTC	CTGGGTTCAA
231301	GTGATCTCTC	TGCCTCAGCC	TCCTGAGTAG	CTGGGATTAC	AGACGTGTGT	CACCACACCT
231361	GGCTAATTTT	TGTATTTTTA	G TAGAGACAG	GGTTTCACCG	TGTTGGCAAG	GCTTTCCTCG
231421	AACTCCCAAA	CTCAGGTGAT	CCACCCGCCT	CAGCCTCCCA	AAGTGCTGGG	ATTACAGGTG
231481	TGAGCCACCA	TGTCCAGCCC	CATCTTTTTT	TTTTAGTTTA	GTTCTTAACA	AATAGTCTGA
231541	CACAAAGTGG	ATATAACAAT	ATTTTGAATT	ATGAATAACT	AAATGAATAT	TTCCAGATTT
231601	CCTGGTGCTC	TCAAAGTTTT	ATGTTACAAA	AGAAAAACAA	GTCTAAAATA	CCTGCCTCAA
231661	GTTTTTATCT	G TACTATGAT	TTCAAACCAA	ATAAAAAACA	GGTGGGGTAA	AAACTGAAAC
231721	AGGAAATACA	TATAACTGAA	AAATTTTGGT	ATGTTAGTAT	GATAATACTA	GGTCATTTTT
231781	CCTGTTTCCC	CAACTTCATT	TTCTATAGCA	ATAAAAAAGAA	ACAAGTAAAT	GTATATTAAT
231841	TTAATTTAAA	AGAAGTAGTC	TACCATCTCT	TCTGTTAAAA	AGAAAAAAGT	ATTTTAAAAA
231901	ATTATCTCTG	GAAGGATACA	CAGGGAACAT	TGCTCTGGTT	TCTTCCAAGA	GAGAAATGAG
231961	GAAC TAGAGA	GCATGGCCAA	GTGGGGTTTT	GCTTTTGTTT	TTGTTTGTCT	ATCTGTTAGC
232021	TTTTTTATTAT	TTTCTTTTGT	AGGTTTGAAT	TTCAAACCAC	ATAAATCTGT	TACATGCTCA
232081	TAATAATAAG	TTTAAAAATA	AAC TTTTGGC	TGGGTGCAAT	GACTTACACC	TGTAATCCCA
232141	GCGCTTTGGG	AAGCAGAGGT	GGGAGGATAC	TTGAGGCCAG	GAATTTGAGA	TCAGCCTGGG
232201	CAACATAGTG	AGACCCCTGCC	TCTGTAGAAA	TAAACAAAAA	TTAGCTGGAT	ATGGTGGTGC
232261	ATGCTTGTAC	TCCTAGCTAC	TTGGGAGGTT	GAGGCAGGAG	GATCCTTTGA	GTCCAGGAGT
232321	TTGAGGCTGC	AGTGAGCTAT	AATCACCCAC	TGCACTATAG	CATGGGCAAT	AAGGTGAGAA
232381	CTTGTCTCAA	AAAAAAAAAA	AGGGGGGGGG	AAACAAATAA	ATAAATATAA	ACAAAAC TTT
232441	TGTTTCAAAA	TATGTAATAT	TTAGCACTAA	AGAATTCTGA	ATTGTAGAGC	TAAAAAGTAC
232501	TTAAAAGTTA	ATAATTATTG	TCTCCTTTAA	AAGAATTGTT	ATCAAAGTAT	AATTTTTATC
232561	CAGAAAATCA	TCCATATCAG	CAAGCTAAAC	TTTCTCAAAA	TGACATATCC	ATGTAATTAG
232621	CTCCCAGGTA	ATTAGCAGGC	AGCCTCTACT	CAGGTTGAGT	ATTCCTAATC	TAAAAATTGG
232681	AAATTCAAAA	TGCTCCAAAA	TCGGCAACTT	TTTGAATGCT	AACATGATTC	TCAAAGGAGT
232741	GCTCATGGAA	TATTT CAGAT	TTTGGATT TT	TGGATT TGAG	ATACTCAGTA	TAATGCAAAC
232801	ATTCCAAATC	TGAAAAAATC	TGAAATACTT	CTGGTTCTAA	GCATAAGGGA	TACTCAACGT
232861	GTGTTAGCTA	ATTAGACCC T	TCATGGTCTC	TTCTAGACCT	CAGCTTCTTC	AAGGTAACCT
232921	CTATCCTCAC	TTCTAATAGC	ATGAAC TTTT	CTGTTT TAGA	ATAATTTGGA	TTTT CAGGAA
232981	AGTTGCAAAG	ATAGTACAAA	GACAGTACAG	GAGAGTTCCC	ATATATCTTT	CACCTAGCTT
233041	TCCCCCATTG	TTAGGATTTT	ACATTATTAT	GATACATTTG	TCAAATATAA	GCAACTCACA
233101	TTGATACATG	AAACTCTATT	AACCAAACCC	TAGACTTTAT	GTGGATT TCA	CCACTGTTTC

Figure 1 (Page 72 of 73)

233161 CACTAATGTT TTCTTTCTGT TCCAAGGTCC AATCTGGAAT ACCACACTGC ATTTTCTTGT
233221 CATATCTCCC TAGTCTTTTT TTGTCTGTGA CAATGTCTCA GTCTTTTCTT GCTTTTCATG
233281 ACCTTAACAG TCCTGAAGAT CATTTGCTTT TTTTTCATAA TTACACCGGA GTTATAGATT
233341 TTTTGAAATA ATACCACAAG GGCAAAGGGC CCTTCTTGTC ACATCATTTT AGGGAGAACA
233401 TGATATCCAC ATGACATCAC TGATATTAAC CTTTCATCATG TGGTTTAGGT AATGTTTCAG
233461 GTTTCTCTAC TGCAAAGTGA TTTTTTTCCC TTAATTTAGC CCACCTGAAC TTATCAATTT
233521 TGTTTTCTTC CATGACTAAT ACTTTTGTTA TTATAGCTAA AACTTCATTG GGGCCAAATC
233581 TTAGATCATG TAAATTTTCT TCTATATTTT ATTCTAAAAG CTTGTAATGT TTGATACATT
233641 CTAAGAGATG TAATGTTTGA TACATTACAT CTAGTCCTTT GATTTATTTT TAGTTACTTT
233701 TGTATAAGGT GTGAGAGATG TCTCCAGTTT CACTTTATTA ACACATTGTG GTGTTCCAGT
233761 ACTATTTGTT GCTAAGACTA TCTTTTTTCC ATTGATTACC TTTGCCTTAG TTGGCAATAT
233821 TTTTGTTGGT TTATTTCTAG ACTGTTTAA AAGCTTTGAA ATAGTTTCATT TTTTGTGTCA ACTGACTGA
233881 ACAAAACTGT TGATTACAGT AAGCTTTGAA ATAGTTTCATT TTTTGTGTCA ACTGACTGA
233941 GTCAGGGGAT AACCAGCTAT CTGGTTAAAC ATTATTTCTG GCTGTGTTTG TAGAGCGTGT
234001 TCTGGATGAG ATTAGCCTTT GAATAGGTGA TCCTAGTAAA GTAAACTGTC TTTCCAGTG
234061 TGGATGGCAT TATGCCACCT GATATTCAGG GTCTGAATAG AAGAAAAGGC AGAGGAAGGG
234121 GGAATTTGGG CCTTTTTTTC TGCCTCACTG CTTGAGCTGG GACATCTCAT CTGGTCTCCT
234181 GCTCTTGAAC TGGGATTTAC ATCATCAGTT CCTCTGGTTC TCAGGCCTTC AGATTCAGAC
234241 TGAATCATAC CACCAGCTTT CCTGGGTCTC CAGCTTGCG AGTTACAGATC ATGGGACTCC
234301 TCATCTTCCA TAAATGCATG AGCCAATTCA GTCTATGTCC TTGAAAAC TG CCCCCTGCA
234361 GATTAAGGCT TTTTTCCTACT AGGTGAAATA AAGAAGCTTG TTAGACAGAT TTCCCTTCAT
234421 CCAGTGCCCT CTCCTCTTTA AGTTACAACA CATTGGCTAC ACCTAAGTGC AGGGGTGGGG
234481 ATGAGGGTAT AGTCCTCTTG TTTGCTGAGA AGAGAACTGT ATTGGGAAAG CTCTAGAAGT
234541 GTTTGATACA TACATAAACA AGGCATGGTT TTTGCACTTA ATTTACATT ACATTTTTC
234601 CAGAAAAAAA GGAATGTATA GGCATCACGT AACTGTACTA GCTGGAGTCA TTCTTCCTGA
234661 TTATCAAAGG TAAACAGTTA TTAATCCTAT ACCAAGATGT CAAGGAGAAG TACTTTTGGA
234721 ACACAAGGAA TTCTCTGGGA GTCCTTACTA CTCTCAAGCC CAGTGAAAAA GTTAATGAAA
234781 AACTATAGTA CCTTCCTATA AGCTGGATGA CTAATTACCA GGCTCATTTA GGAATTTGCC
234841 TTACCAAGTA AAACATAAGG GCAGCTGAGG TGCTGACTGA AGACAAATGG AGCATAGAAT
234901 AAGAGTAGTA AAGAATGCCA AAAATGCTGT CATGTATCCA TTGACAAAAG GAGCTATAAA
234961 GCCTTTAGGT ATTTTCACAC TTGCTCTGTT ACGTAAATGT ATGTGTGTGT GTGTGTGTGT
235021 GTGTGTGTGT GTG
//

Figure 1 (Page 73 of 73)

```

1  CACACACACA CACACACACA CACACACACA CACAAATGAG GTATATAAAG GGTCTCCTAA
61 AATGTCATCT GATATTTGTT ATTTTCATATT CTCAGATTTT TAATCCATTT AGGTAGGTCT
121 ATTTTAGATA GCCTTGCTCTG AAACAGAGCT GGGACCTGAT GAGTGAAAAT GAGCTCACCA
181 GAAGAAAAAT CAAACAGGCA TTTCAGAGAT TGAGGCCAAG AAGTTAAATG TCTTAAATGG
241 GCAGAGCTTA GCTGCTTGAT GTGAAAAGAG ACCAGCGTGG CTGGAACAGC AAAGGAGAAC
301 AGCAGAAGAG GTGAACAGAG GCCAGAGATG GTCACTGAGT GGGCCCTTAA GTCATGGTAA
361 GGAGTATGGA GAATGAATTA TTGCATGTAT TGAATATGTA GGTGACGTGA CTCACAGATA
421 CTTTGGATTT GTAGAGATGA AGGAAATGTA GCAAGTGACA CTCTTAGAAT GTTGATTGTA
481 GTAAATGGTA GTGTCAGTTA TTGAACTGGG GAGAACTGGA AGGGATAACA GGCTTAAGGA
541 GCACGTTTAT TCCTGTGTCT TGGAAGTGTT TAGGGTGAAA GACCTATTAG AGTTCATAAT
601 GGAGATGTCA AGTGAAAATG TGGCTACACA CATTTGCATT TCAGAAAAAA GGTCAGGCTG
661 GAGATGTAAA ATTGGAAGTT TACTGCATAT AGATAGTCTT TGGAACCGTA GTATTGATGA
721 AGCCATTAAT GAGACAGAAC AAAGACTAGG GACCAGAGCC AAGCTCCAAG TTTCTAAAAAT
781 TTAGAGGATA GTATAGTCTG GTCATTTTGA GGTGAATACT TAATAACAGA ACAATTTGCT
841 GAAGTGTAATA TTTAGAGCCC TACTCTTTTA GCTCTGACTA TTAACGAATA CAGGAAAGAA
901 TGGATATGGT TATCTGCCTG GTGTCTGTGA AATAATTTAA GCCAGGAAGA GATCCTCACC
961 AGAAACTGAC TATGCTGGCA ACTTGGATCT TAGATTTCCA GCCTGCAGAA TTGTTAGAAA
1021 ATAAATGTCT ATCGTTTAAAG CCACCAGTCT GTAGTATTTT GTTATGGCAG TCCAAGCTGA
1081 CTAAGTTTTG GTACCCAGGC GTGGGATGCT GCAACAACAA ATACCTAAAC ATGGGGAAGT
1141 GGCTTTGGAA ATTGGTGATG GGTAAGGCTT GGAAGAGTTT GAGGTTTATA CTAGAAAAAG
1201 CCAATTGTGA AGGGACTATT GAAAGAAATA TGGACATTAA AGGCAATTCT GGCAAAGGCT
1261 CAGAAAGGAA GAGAGCTGGA CAGAAAGCTT CCATTTTCAT AGAAACTTAG ATTTATAACG
1321 ATCATGGATA GAATATTAAA TATGCTGGTT AAAATATGGA CTTTAGGCCA GCGTGGTG
1381 CTCACGCCTG TAATCTCAGC ACTTTGGGAG GCTGAGGGCA CAGATCACGA GGTCCGGAGT
1441 TTGAGACCAG CCTGGCCAAT ATGGCGAAAC CCTGTCTCTA CTAAAAATAC AAAAATTAGC
1501 TGGGCATGGT GATGTGCTTC TGTGGTCCCA GCTACTCGGG AGGCTGAGGC TGAAGAAATCG
1561 CTTAAACCCG GGGGGTGGAG GTTGCAGTGA CCCAAGATCA CACCCTGCA CTCCAGCCTG
1621 GGATACAGAG CAGGACTCCA CTCCCCCGC CACACACACA CAAAAATAT ATATATATGG
1681 ACATTAAAGT CAACTCTTGT GAGGTCTCAG ATGAAAATGA GGGACAGGTT ATTGGAAACT
1741 GTAGAAATCA CTGTTCTTGT TACAATGTGT CAAGAACTTG GCTGAATTAC GCTGTAGTGT
1801 TTAGTGGAAA GAACTTATAA GCAGTAAAC TGGATATTTA CCAGAAGAGA TGTCTAAGCA
1861 AAGTATTGAA GGTGTGATTT AGGTCCTCCT TACTGCTTAA AGTGAAATGT GAGAGGAAAG
1921 AGCCGAAATA AAGAAGGAAT TTTTAAGCAA AACACAATCA GAACTTGGAG ATTTGGGATA
1981 GATTTCTCAA TCTATATTGT AAAAATTGAG AAAGTTTTTC TTGAAGAGGT ATGGTTGAAC
2041 AATGTTTTCT TTTTCTTTTT TTTTCTTGGT TTTATTTTTTA TTTTATGTT TTTTGAGACA
2101 GGGTCTGGCT ATGTCATCCA GGCTGGAGTG CAGTGGCACA ATCTCAGTTC AGTGCAACCT
2161 TTGCCTTCAG GCTCAAGCAA TCCTCCCACC TCAGCCTCCT AAGTAGCTGG GACTACATGT
2221 ATGCACCACC ACACCCTGGC TAATTTTTTG TTGTTGTTTA TAGAGATGGG GTTTTGACAT
2281 GTTGCCTAGG CTGGTCTCTA ACTCCTGAGC TCAAGTGATC TGCCCTCCTC AGTCTCCCAA
2341 AGTGTTGGGA TTACAGGCGT GAAACACTGA GCCTAGCCTG AACAACCATT TGATAAAGAG
2401 ATAATGGGTG TGACCAAGG ATTTAATCAG CCATCTCAGC AGAAGCCAGG AAGAGAGATG
2461 GGATTATTCC AGCAGAGACA CTGCCAATTT AAACCTAACGT AGGCAGAGAA AACAGAAAGG
2521 AACAAAGGAA GGTTGTCGAC TTTTGAATT CTATAGAACA GGATCATAGA GCTACCTGGC
2581 TGTCAATGTG TACTATTCTT TAAGAAAAGG AAAGACTGAC CCACCAAAGG CAACTTACAA
2641 GATCACTAGG GCTGACTCTT TTTTGTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGGATTG
2761 TCTTGCTTAA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACCTCT GACCTCCAGT GATCCATTCT CATTTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCC TGGTGGGACC

```

Figure 2 (Page 1 of 74)

3121	CCACCAAAC	GAAAGACCGA	GACTTCAGGC	AGGGCAGATG	GAGTAGGCCA	ACTACAGAGC
3181	CAGAGGTGAC	ACTGAGACAC	CACTGGGCCCT	GGAAATCAGG	GCATCAAGCC	AAAGAGGGTT
3241	TTTCTTAAGA	CCTAACAGAA	TTTGCCCTTGC	CAGGTTTTGG	ACTTGATTAG	GACACATTAC
3301	ACCTTCCTTC	TTTCCTATTT	CTCCATTTTC	TAATGGGAAT	GTCTATTATG	CCTGTTTCAC
3361	CATTGTACCT	TAGAAGCATG	TAACATTTCT	GGTTTCACAC	GTCAAAGCT	GGAAAGGAAT
3421	TTTGTCTCTG	GATGAATCAC	ACATTGAGCC	TCACCCGTAA	CCTGATTTAG	ATGATTTTTT
3481	AGATGACACT	TTGAACTTTA	GAATTGATGC	TAGAATGAGT	TAAGACTTTC	AGGGGGCTGT
3541	TGGGATGGAA	TAATTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG
3601	GAGTGCAGTG	GCACCATCTT	GGCTCACTGC	AAGCTCTGCC	TCCC GGTTT	ATGCCATTCT
3661	CATGTCTCAG	CCTCCAGAGT	AGCTGGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT
3721	TTTTTTTTTAT	TTTAGTAGAG	ATGGGGTTTC	ACCGTGTTAG	CCAGAACGGT	CTCGATCTCT
3781	TGACCTTCTG	ATCCGCCTGC	CTTGGCTTCC	CAAAGTGCTG	GGATTACAGG	TGTGAGCCAC
3841	CATGCCCGGC	TGGGATGGAA	TAAATTTATC	TTGTATGGGA	GAAGGACATA	CATTTTGGCA
3901	GGTCAAGGAC	AGAATGTTAT	GGACTAAACT	GTGTCCCCCA	AAATTCATTT	ATTAAACCC
3961	TAAACCCAG	TGTGACTGCA	TTTGGACATA	GAGCCTTTAG	GGGGTACATA	AAACTAAAGA
4021	TCACAGGATA	GGGCCCTAAT	CCCATTTGGGG	CTGGTGTCTT	TACAGAAGAT	GAGACACTTA
4081	GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATACA	AACACACAGT	GAGATGGCAG
4141	CCATCTGTTA	GCCAGGAACA	GATTCCTACC	ATAAACTATG	TTGGCACCTT	GATCTTAAAC
4201	TTCCAGGCTC	CAAACTGTG	AGAAAATGAA	TTTCTGTTCC	AAGCCTCTTA	GATATGGAAA
4261	AAAAGATTCT	GTGTGTTAAG	CCATCCAGTC	TCTGGTATTT	TGTTATGGCA	GCCTGAGTAG
4321	GCTAAGACAA	TGAAGGATGT	GGTAAAACTT	TACGTCCCAA	CCACATACCA	AAGAGGCTGG
4381	AATTTAGCAT	GCTTTCTTCT	TTCAACTGTA	GGCAATGTGC	ACAAGTTCTA	AATCCTAAGA
4441	CATGTTGGCT	CCTTTACTCT	GCCCCAACTA	CAACTCAAAC	AAACAACCTGT	AATATAATAA
4501	CATCCAATGA	AGTTCTGACA	TTTCTTCAAC	ATGAGTACAG	TAATTTCAATG	CCAGAGAATT
4561	CATTTTATTT	TGAAATCTAC	ATGCCATATT	CCAATTTCTG	TTGAAGATGC	AATGGTTATA
4621	TTTATTCTTT	TTAATATAGA	TTTATCAGAC	TGGGCGCGGT	GGCTCATACC	TGTAATCCTA
4681	GCATTTGAGA	GGCTGAGGTG	GGCATATCAC	CTGAGGTCAG	GAGTTTGAGA	CCAGGCTGGC
4741	CAACATGGTG	AAACCCCTGTC	TCTACTATAA	ATATAAAAAT	TAGCTGGGTG	TGGTGGTGCA
4801	TGCCGTGAGT	CCCAGTTACT	AGGGAGGCTG	AGGTAGAATT	GCTTGAACCT	GGGAGCAGGA
4861	GGTTGCAATG	AGTGGAATC	GCACCAGTAC	ACTCCAGCCT	GGATGACAGA	GCAAAATAAT
4921	AAATACATAA	AATAGATTTA	TCAGTTTATC	AATAATATAG	TTTTCTTTTC	TAGGTGTAAA
4981	TATAGGTAAT	GACTGTCCTT	TAGTACATTT	TCTCATGATG	CTCCTCTTAC	TTGGTTTGGT
5041	ACAATATTA	GTATTGAAAT	AAAATAGAGA	ATCCTGTCGC	TACACATGAG	CACTTATTCC
5101	ATTTGCTCAT	CTCCAATATG	CACGGGAAAT	TCTCAAATTG	CTAATAATCT	TGTAACACAC
5161	ATGCATTATA	TTCAACAGGA	ATATATAAAT	TTATAATTAT	AATTTAGGAT	CAACAGATGA
5221	CAAACCTTTA	GAAGGTTTGT	ATTTAACCTT	AAAATATAAT	TTTTTTAAAA	TTGGTTATAA
5281	AATTTCTAAT	ACTTTCTTTT	TTGTGACCTC	AAGGGGAAAA	TATAATTCTT	ATAAAAGTTC
5341	AAATGATTTA	CAGAATACAA	AAAGTGAATA	GAGATGATGA	ATGAATTAAA	GGAAAGGATA
5401	TTGCTACATA	GATTTGGAAA	TTTAAAAAGG	GAAATTACGA	TTGTTGATTT	TGTGTTAAAC
5461	TGATCTGCTT	TGTTCAAGAT	ACCTTATGTA	CCAAAAAATG	ATTTTATCTC	AGCCTCATAT
5521	CTCAGTAAAT	TCCTGAGACA	AACCTTAGTC	CCTGGTGCCC	AGGTGCCTTT	GGTAATTGGG
5581	AGACCTCTAG	GTTTAGCATC	CTCATCCACT	CGCCCCAATT	TAAATAGTCC	TCCCCAGGGC
5641	CATTCAGGCA	AGGGAGATGA	AAACTTGCTC	AAGAGTTGGA	ATCCAATTGA	AGCTACCGAA
5701	ATTCATTGCT	CAATAGATAA	TTTTCCCTGG	AAGTAACTAG	GGCTTTTGAA	TATAATAGTG
5761	GGCATTTCAA	AGTAGAAGGT	AAAGTATTTT	GGAGATGAGG	AGACAGGACA	GAGCTACGAG
5821	GAATGTCCCT	TGCTCAGGGA	CTAGGCTCTT	AGCAGTACCT	CTTAGGTAAG	AAGTGGTTAA
5881	CTGGCACCTT	CTGTGTTTCT	CTGAAGCTCC	CTTTGCTTAG	GGACTAGGCT	CTTAGCGTAA
5941	CCTCTTAGGT	AAGAAGTGGT	TAAGTACAC	CTTCTATGTG	TCTGAAGCTC	CCAGAACAAA
6001	CTGCCAATGA	AATTTGGATT	TTTGGAATAT	AGTTTCTTTT	TTGTTGTTAC	TTTTTGTTTT
6061	GTGTTTTTTT	TTTGAGAGTC	TCACTCTCAC	TGCAACCTCC	CCCTCCTATA	TTCAAGTGAT
6121	TCTCTTGCCCT	CAGCCTCCCG	AGTAGCTGGG	ACTACAGGCG	TGCACTAGCA	TGCCCAGCTA
6181	ATTTTTGTAT	TTTTTAGTAG	AGATGGGGTT	GGTTTTTTTT	TGAGACAGAG	TTTCACTTTG
6241	TCGCCCAGGC	TGGAGTGCAG	TGGCACGATC	TTGGCTCACT	ACAACCTCCA	CCTCCCGGGG
6301	TTCAAGTGAT	TCTTCTGCCT	CAGTCTCCTG	AGTAGCTGGG	ACTACAGGCG	CCTACAGGTG

Figure 2 (Page 2 of 74)

```

6361 AACACCGCCA CACCTGACTA ATTTGTGTAG TTTTATTAGA GATGGGGTTT CGCCATGTTG
6421 GCCAGGCTGG TCTCAAACCTC CTGACCTCAG GTGATCTACC CACCTCAGCC TCCCCAAGTG
6481 CTGGGATTAC AGATGTGAGA CACCAGATCA GCCTCAGAAG ACATTTTCTA TTGGAAAGAG
6541 AAAACACTAT TAGCAACCTA TTAGTCTAAT ATTTAATACT TAATGTCTTC CTTAGTAATA
6601 AACCAACTCT CTACAACAAA GTGCTTCCTG GCTGCCTAGT CATTGATTCA TTCAGTTCAA
6661 CATTTTCTCA ATGCCCAACA GCCAAGTGTC TCCTGTATGC CAAGTTCCTAT GCTGATTATC
6721 AGTATTTGAA TAAGAGGGGG TCTACATCTT AAGTACTGCT TAAGATGAAA GCCTCTAGGT
6781 TAACAACTT AACACAATGT ATCATTCAC TACTAAATAGA CCGAATACAA AATCTTGTTA
6841 TTGGAGCCCA GAGAGAAGAA TTGAAATTCA AGTTTTCTCT CTCTCCTTTT CTCACTCACC
6901 ACAATAAGTC AGTTGCACCA AGTCTTGTAG CTCTTTACTG AGCCATGTTT TCACGTGTCC
6961 CTTTGTTTTA TTTGCCACAC CCTAAATAAA AATTGTACTG GCTTTTTTTC CCTGGGTTTA
7021 CAGTATTAAT ACATTGTCAA GATTTACCTC TTCGTGTAGA TTCCCTGGGG AAAATTACCT
7081 TTCCTCCTTC CCTTAAATTC TTCAGAGGTT AGAAAGCCAT TAGTAACATT CTGGTATGTG
7141 GACAAAGTTT ACCCATTATG TATGGATGTT TTACTCTTTC CATTTTTCTG ACAATAACTCT
7201 CTTAAGGAGG TGTGGTTATA GAATAGTCAG CTGTTATAAG TACTGTTTTT CTGGCCTTAC
7261 AACTTAAATT CTTTAAGCTG TTTCTTAGTT TGCTCATCTC AAAATTCGGA ATAAGGATAA
7321 AACCTATCTC TTAGATTGTT GGATTAAATG AATTAACATA CTGGAAGCTC ATGAAATGTG
7381 CCTGGCACAC AGTAGTGCCT AATAAACCAT CTCTCTTATT CAGCCTGTTT TCTGATTTCA
7441 GAATCTACAC TTGCTGAGCC AGGTTCTTTT CATTTCAAGG TGAGCAAAAG CATAACAAGGA
7501 AGAGATGGAG GTAGGAAGAG ATTAAGCCCT AGGCCAAGGG AGCTGGAATC AAAGGCAATT
7561 TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA TTCTAACCTT AGGATCGAAA
7621 TTCTCGGACA TACAGGAAAT GCTGGGGGGG GGAAAATCCG GTCTTCTCAG CCCAAGAGCC
7681 ATGTGAAACC AGACCTTCAA ATCTGATGAT TCTCAGCCCA GCTGCCCATT AGAATCGTTG
7741 TAATTTAAAA ATACCCTCGG AAAATTCCTAA TATGTGGCTA TCAAAGGTGA TCATTTGCTT
7801 TTATGCCACT TTGTTTTTCA CCAAATGGGA CATCCAACCC TTTTCCTTTG AGAGTAGTTG
7861 TAGGGAAAGG AGGGGGTGGG GGGAGGGAAG AGCGGAAAAG GCTGGATCCG CCCCAGAGCCG
7921 GTGTCAAGTAT CTGGGAAGTG GGAGGCGCGT CAGCAGTAAA CAGCTTCTGC TAGGATTATT
7981 ATCTCCTGCC ACACACTCGG ATTTGAAGGC TCCAAACGAA ACAATGCAAA ACGCTTCAGT
8041 GGAGTTCCAG AAGCGTTAGA CTAAACGACT GGGTCTGTTT GGCCAGTCTG AGCAGCTGGG
8101 CGCAGATGCA TAGGCAAGAC TTAGCCCGCC TAGACTTTTC TGCCCACCTA ATTCCGATCA
8161 AAGCAGAAAC CGGCCGGGCG CGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGTAGGCAG
8221 AGGCTGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CCGGCTAACC TGGTGAAACT
8281 CCGTTTCTAC TGGTGGCGGG CGCTTGTAAT CCCATCTACT AGGGAGGCTG AGGCCGGAGA
8341 GTCGTCTGAA CCCGGGAGGC GGAGTTTGTA TGCAGTGAGC CGAGATCGCG CCACTGCATT
8401 CCAGCTTGGG CAACAGGAGC AAAACTCCGT TTCAAAAAAG CAAGCAAACA AACAAAAAAA
8461 TGCAGAAACC GAGATCCGGA AGAAAACCTC GGCGAGATTC ACAGAATCCA GGAAAATAGG
8521 TCTCTAGAAA TTTGTCCATG GTCCCAGATC TCCATTTCTT GTGGGTGGGG CAGCTGTTAC
8581 CAGATCCCTA GAAGCAAAGG TTTTTTTGGG GGACCGTGTC TCACTGTTGC CCAGGCTGGA
8641 GGGCAGTGGC ACGATCTCGG CTTACTACAA CCTCCGCCTC CCAGGCTCAA GCGACTCTCC
8701 TGCGTCAGCT TCAAGAGTAG CTGGGAGTAC AAGGTATGTG CCACCACGCC CAACTTATTT
8761 TTTTATTTAT TATTTTATTT TAGTAGAGAG GTGTTTCACC ATGTTGGCCA GGTAGTGTC
8821 GAAGTCGTGA CCTCAGGTGA TCAGCCCCCT CGGCCCTCCA AAGTGGTAGG ATTAGAGGGG
8881 TGAGCAGAAA GCAAAGGTTT TTGAGTGGCC ACAGGCCCCA CTCTATTTCC TTTTCTGCCT
8941 GTAATGGCAA CCTAGACGCT TAGTCTGTTT TACAGACACC TTTCAACTCC CTGGTTAACT
9001 CCGTTCTACA TTAGGGACAT TAGTCTGTTT AATGGAACCT ATAACCTCA CAGAATTAGG
9061 TTTAGGTAAT ATACTCTGCA CTTTAGCAGG AATGGAACCT ATAACCTCA CAGAATTAGG
9121 AAAGTGAGGC TGCCTACAGC CTAAATTGAG AAAAAAATAG ACGGGGACT AGTCGGAGGA
9181 CCAAACAAGG TTACCAACAC GTTAGAGTTT TGCCTTCAAT TTACATTTTT AAAGTAATCA
9241 CAACGAAGTG TTTAGATCAC GAGGCATCCC TGCATGTAAA CTGTTAGGCA CTAACATATG
9301 TCGATCTTAC AAAGCATTAA CTAGAATATT TCTTTAGAGT ATGATAGTAC GTAACGTACC
9361 TACTATTACA TACAAACAGA CCAACCTTTA GTAACAGCGC TCCCCAAAAA CCGAAAAGCA
9421 GTAATACGCT TTGCTCAAGG TTGGCATAAA ATTAACCTAC CTTAGTGCCT TTTTCTCTTC
9481 TACCTACAAG CAGTGAGGTT AGCTCTTCCT TTGAAACGGT AGGGGGGCTC TGAAAAGAGC
9541 CTTTGGGTTT GATAGCGTTT CCGGGAGCTC AGATACCTGT CAAATCACTT GCCCTTGGCC

```

Figure 2 (Page 3 of 74)

9601	TTGTGGTGAC	TCTCGGTCTT	CTTAGGCAGA	AGCACGGCCT	GGATGTTAGG	AAGGACGCCG
9661	CCCTGAGCAA	TGGTCACCCG	GCCTAGCAGT	TTGTTGAGCT	CCTCGTCGTT	GCGGATGGCC
9721	AGCTGCAAGT	GGCGCGGGAT	GATGCGAGTC	TTCTTGTTGT	CGCGAGCCGC	GTGCCCCGCC
9781	AGCTCCAGGA	TCTCGGCGGT	CAGATACTCT	AACACCGCCG	CCAGGTACAC	CGGCGCGCCT
9841	GCCCCAACCC	GCTCTGCGTA	GTTCGCTTTA	CGGAGCAGGC	GGTGCACTCG	CCCCACCGGG
9901	AACTGGAGAC	CAGCGCGAGA	AGAGCGGGAT	TTGCTTTTGG	CGCGAGCTTT	GCCTCCTTGC
9961	TTACCACGTC	CAGACATTGC	AATCAGACAA	AAATCACCAA	AACCAGCAGC	CTAAGCTCAC
10021	GAGAAAACAA	ACAAAATCAA	GAAATATGTA	AAACATGGCC	GCTTTTATAG	GTAGTTCCTG
10081	GGGAGTAAAT	CCGACTTTTT	GATTGGTCGG	TAGCAAATGC	TAGTCAGATA	GCCAATAGAA
10141	AAGCTGTACT	TTCATACCTC	ATTTGCATAG	CTCTGCCCCA	GGATGACAA	TGTGTAGTTT
10201	GTCTTCCAAT	TAACATAAGAG	GTACTCTCCA	TCCCTCATTA	GCATAAAAAG	CCATAAAGTA
10261	GCAGAAATCC	GCTCTTTTACT	TTCGACACAT	TTCTGGTGTT	TTAAGATGCC	TGAGCCAGCC
10321	AAGTCTGCTC	CCGCCCCGAA	GAAGGGCTCC	AAGAAGGCAG	TGACCAAAGC	GCAGAAAGAA
10381	GATGGCAAGA	AGCGCAAGCG	CAGCCGCAAG	GAGAGTTACT	CTGTGTACGT	GTACAAGGTG
10441	CTGAAACAGG	TCCATCCCCA	CACTGGCATC	TCTTCCAAGG	CCATGGGCAT	CATGAATTCT
10501	TTGTTAACG	ACATATTTGA	GCGCATCGCG	GGCGAGGCTT	CCCGCTGGC	GCATTACAAC
10561	AAGCGCTCGA	CCATCACCTC	CAGGGAGATC	CAGACGGCCG	TGCGCTTGCT	GCTTCCCGGA
10621	GAGCTGGCCA	AGCACGCCGT	GTCGGAGGGC	ACCAAGGCCG	TCACCAAGTA	CACCAGCTCC
10681	AAGTAAACAT	TCCAAGTAAG	CGTCTTAACA	CCTAACCCCA	AAGGCTCTTT	TAAGAGCCAC
10741	CCAGATACCC	ACTAAAAGAG	CTGTGGCCAG	ACGCCAAATF	TTATTTGGCG	GCGGAGGGGT
10801	ATTAGAATGT	AGGAACTGGA	GAGGGGTGGG	GACAAAGTGT	GCAGCTTAGA	GAGGGACAAA
10861	GGGTCTTGAA	CCCGAAAGAA	GCCAGCCATT	AAAAATGGGT	TTGGGGTCAA	TTGTTGTGTC
10921	TTAAATTTAA	AATGGGGACA	AGCGGCCATT	TTGCTAACTC	GGCGTTCCCG	GAAGAAACCG
10981	CAGGCTCGCT	TAGGTTTCAG	ACCCAGCTGT	CTGTCCCTGT	CTACGTCGCC	AGGATCAACG
11041	GTTGCCGTAA	TGTCATAATT	TGCCACCAG	CTTCTAGCCA	ATAGGCTGTC	CTGTCAATTT
11101	AAATATTAAC	CAATCGAGGG	AAAGCTGTTT	TGAGACTCTG	ATTTACATAG	CGGACCGGAG
11161	TGGGAACCTG	GGCAGTAAC	GCCTAAGGAA	GGACTCCCCC	TCTGTTTTCG	TGGCGCACAC
11221	CTTCGTAGTA	TACTGAAGGG	TGTGTCTCCT	GGGTTTCCAA	CTGCCCCGGT	AATAGCTTTT
11281	TAACCTAATA	TGCGTCAGTT	TTGATAACAA	CACCTAAGGCA	GTACAGAACT	AAAGATGTAA
11341	GCACTGCGCC	AGATGTTGCT	TCATACATCT	TATTCTATTC	AACTGGTTTA	TTCAAGATTC
11401	AAATCAAATC	AAATTTTGCT	TGAATCCCAG	TGCTCAGTCA	GCCATAAATG	GTGTGTTGCC
11461	TGATTGAAAC	TTAAAATCTC	CGTAGGGGGC	TTGTAACATG	CAGAAAAAGT	TGAAAGTTGC
11521	TTTAGGAGAA	GCCAACTCTT	AACTGCTGGG	TAAATTGACA	AGCCTTCGAA	CACTGAACTG
11581	AAGGCCAGTA	AGGACTAGGC	GCTGGGTGGG	GGAGAATGAA	GAGGAGACGT	CATTAAACTT
11641	AGCACATACA	CTGTGTCTCC	TAGAGGACTC	TCCCTTCCTA	GACAACTGCA	GGCCGCTTTG
11701	TGGCCTGGGA	AATTCACAT	TCCCTTAAGT	ATTTTACTCA	TGGTCTTTTC	CAGGTAAAGA
11761	TTTTAAGATG	AAGGGTTAGA	CGTAGTCTAC	CTATCTTTTT	ATTCAAGTCT	AGAACACGTT
11821	TTTAGCACCT	AGAAGTTTGC	TTTCTCCATT	AAAAACCGGG	AATATACAAT	AAATAAAATT
11881	AGTGTTAAAG	CAGATTTTTA	CAAACTTAAA	TACCATGTAA	TTTAGGTTAC	AGTTACTTAA
11941	CATAAGGACT	GTGTGATCTT	AAATCTGCAA	TTTCTTTTAC	ACCTGGGAAA	TAAACTAAGG
12001	CCTGCTTTTG	GTGCCAGACA	AGGCCTTATA	CTTGAAACACT	GCTGTGCAAT	CACAGGCTGC
12061	CTTGCCTAGA	TAACTTATCT	GAGAAATTCT	GATGAGAAAT	GAAATTTCCA	GAGTCCCTCA
12121	CAAGTAAATT	TTTTTTTCTT	TTTTTTTTTT	TTTGAGACGA	AGTTTCTCTC	TTGTTTCCCA
12181	GGCTGGAGTG	CAATGGCGCG	ATCTTGGCTC	ACAGCAACCT	CCGCCTCCCG	GGTCAAGCC
12241	ATTCTCCTGC	CTCAGCCTCC	GGAGTAGCTG	GGATTACAGG	CATGCGCCAC	GACACCTGG
12301	CTAATTTTGT	ATTTTFTAGTA	GAGACGAGGT	TTCTCCATGT	CGGTCAGGCT	GGTCTCGAAC
12361	TCCGGACATC	AGGTGATCTG	CCCGCCTTGG	CCTCCCAAAG	TCCTGGATTA	CAGGCTTGAG
12421	CCACCGCGCC	GGGCCATAAT	GGTTTTTTTT	TTTTCTATGC	CTCTAATGGA	CCTGGTCACT
12481	TATTCCCATT	CAGACTGACC	GCTCTCCTAC	CTGCCAACTA	ACTAATCAGT	GTAACCAAAA
12541	TCTGCAAACA	AAATTCAGTA	TTCTTTCCCC	GCCTTTTCCC	CTTTCTCTTA	CATAGATTAT
12601	GTTTTTGCCT	GTGTTAGATG	AAATAATTCT	ATTGCTTGTT	CTCTCTCTG	TACAAGTACC
12661	CAGTAAGCAA	ATTATTAACT	TCCTGGTCAT	TTATTTCTGA	ATTTTCCACC	AAGACAGTGT
12721	TTATGTGAGT	CATACAATAA	GAACCAACAG	AAATGTGTGT	CTTGGAAACA	GGTGTCTAT
12781	CCCTGGACCC	TTTGAGTTTT	CTGTTCACTT	TCCTTTGGCT	TTTGCATGCT	AAAAGTTTAT

Figure 2 (Page 4 of 74)

12841	CGTCCGCGTT	TGTTTGTTTT	GGTTATTCTA	ATTGGACTTG	GCTGATTGGT	TGCATATTGG
12901	TGGCAGTAGT	AGAATTTGAA	TTCTGGTTTT	CTGGTCACAT	CATTAAGTGA	TTAGTCAGTG
12961	GAGAGGACAG	GAAATCTGGT	TTATTTATTA	ACCTTTTTTT	GGGGTGTTTT	TGTTTGAAGA
13021	TGTTGATATT	CTCTGTGAGG	ACACAGGGTT	AGAGTTGGTG	TTTTTCTTTC	TGACTTTTACA
13081	TGGGATTTGA	TGTTTTGTGC	TTGTATGCCT	CTTCCACCT	TCCAAAACCT	GTCTTTTTTG
13141	AGTCCAAATA	GTTGTCGATA	TCTGCAAAAC	CAGTATTCCT	GTGTTAAGAT	GATATGAATA
13201	TAAAATGGCT	GCCCTGTTAT	AACTTTTGAC	TTTAAGAAAG	TGTTAGGACT	AACAGGAGAC
13261	AAAAAGGAAA	TCAAGGAAAC	CAAATGTCTG	GTCTCAATAA	CTGCTATGGC	AGAGGCTCTA
13321	CAGCTTATTA	TTAATTTTAG	TAATTTTACA	TTATTGCCCC	TTCACGTTCT	TTAAGTAAGG
13381	TTAGAGGACA	GAAGAAACAT	AATGTTGTTA	CAAATTGGAC	TATTGAGTCA	GGAAAAAAAA
13441	AGAGTGCTTT	CAATATCTGA	ATAAAACAAA	GATTTAATAT	TTTCTAAACC	TTAACGAGTT
13501	TATTGTAAGG	GATGTGATGC	TGGAAACTAG	GAAACTAGAA	TTTTCTTCTA	AACTGAGAAT
13561	CAGAATTATT	CATATTCTCA	GCAGTGGTGC	CACCTGAGGG	ACTTCTGATC	TTAATTACAT
13621	ACTTTTATTT	CTTTAACTGA	TCAACATGCT	AAATAGATAA	CCTATGGCTC	TGTTTTTACC
13681	CACTTTAAAT	TCTGTTCTAT	TAGCACGGTT	AGCTTTCCTA	ATTGGCAATA	AGATTGAGAC
13741	TATCTTTTTT	TTTTTTTTGA	GACAGAATTT	TGCTCTGTGG	CCCAGGCTGG	GGTGCAGTGG
13801	CACAATCTCG	GCTCACTGCA	ACCTCTGCCT	CCAGGGTTCT	AGCAATTTTC	CTGCCTCAGC
13861	CTCCCCAGTA	GCTGGGATTA	CAGGTGCACC	ACCACGCCTG	GCTAATTTGT	GCTATTTTAG
13921	TAGAGATGGG	GTTTCGCCAT	GTTGGCCAAA	CTGGTCTCGA	ACTCAGGTGA	TCCACCTCGG
13981	CCTCCCAAAG	TGATGAGATT	ACAGGCGTGA	GCCACCGTGC	CCAGAAAAGA	CTATCTTATT
14041	TTATGAATTT	AAATAATTGT	GAAAT'TATCC	ACTTAAGGGA	ATTAATAAAT	TATAATGTAA
14101	TCTTAAATTT	TAGTTGGCTT	ACATAAAGAC	TTAAAAATACA	TCAATTTAAA	TAAAAACTCA
14161	TTTGTCTAAA	AAAAAATCAA	AAATTTTCCT	TGTGCTTTAA	ATGTGCTACC	TCTTTAAGTT
14221	CTAATTAAGA	GAAAAAAAGT	TTAACTGTGA	GTTTCATTAG	TGGTCTTAGT	TAACAGCTTA
14281	AAGTATTTTG	TAAAAAAAT	ACTTCACAAT	TTTTAAATAA	CTTAAAAATA	TTAATACCTC
14341	TTTTATTAGG	TTTTTTTTAAT	AAGGAAAATA	TATAATACAT	CTAATCAAGA	TTATTTTTTG
14401	GACAAATTGG	CTTAATAATT	TCATTTTAAA	AATGGCTTCT	TTATTCTTAT	ACTGTAAAAA
14461	TAATATTAGC	AGAATATTAT	AGTATACACA	AGTTTAGGGT	TCATATTCTA	AAAAACAAAA
14521	ACAAAAGCTA	ATTTAACTTG	CATTTACTAA	ATTTCTTCCA	CTAGTTGTAC	TGGTTACATG
14581	AGTTAACATC	ACTTTATTTA	TTATTCTAAA	ATTGTAAATT	ATTCATTGAA	CCAAATTAAA
14641	TGATAATAGA	TAATGTCATT	TTTAAAAATG	GAATTAAATT	TTATGTTACT	AATTATAAGG
14701	ATTCAATGTG	TGAGCTTAAG	TACTGAGTTC	ACAGTGTATG	ATAACTTTAA	GAATTTAGGT
14761	GAATATTATT	AAATTGAGTA	AATTAATCT	CAATCTTTGG	ATACCTGGAC	AATTTCTAAA
14821	TTGGAGGGTA	CAAAATACAA	ATCACAAGAA	ACAGTGTAGT	TTTATGCAAA	TAACATTTTT
14881	ACACAGTTTA	GAATAACCAT	TGATAAACAG	ATAAGAGAAC	ATATGATTGC	CTTAGAATTG
14941	ATACTGTTGC	TTTCGCCACT	TTAGATTTGT	AAATCATGTA	CTGTATACGT	TGGGGCGTAG
15001	AGGACCATGC	AGGTTTTTGA	TGACTGCCTC	TGTTTTCGTC	ATGCCTATGC	GGGAACACAA
15061	TTGCCTGCTT	TGTTTAAGGG	CTATGGTTAA	TCCAAACAGC	TCTGACTCTA	TCAAGTACTA
15121	TAGCTACAGA	GAAACACAAG	TAAGCATTCG	AGATAATGAC	TACCTTGAGC	CTTTACTTAT
15181	TTAAAAAGTT	GTTACTGTTT	GTTAATGTGG	TACATTCAAT	TTACTATGGA	TTGTCACTCT
15241	AAAATAAGAC	TTCAATCTTT	TTCTTATTTT	TATATAGCCA	TGATTTATAT	TCATATCTTA
15301	ATGTAATAAC	CAATCTTCTC	TGACAACATT	ATAACAATGC	TGGAACCTCC	ATTTTCAGTA
15361	CTTCAAACAA	CAAATACTGC	TTTTTATACT	CAGAGCAGAT	GGATATGTGC	TTCCCAGTGT
15421	AAACACATTT	GGAATCTCAC	TGAGAAATAC	ACTATCACTA	AAAATACAGT	TCTGAGATTC
15481	ATTAAAAAGAC	CTCCAGAATT	CTGGAAGTAG	GAAGTTTCCT	CTTCAAAGTC	TACAGAGGAA
15541	GACGAGGTCT	GAAATAGACA	GCTTCTTCCT	TCTTTTACCT	GTGGTATTAT	TCTGTTTTGT
15601	CCTTTTCTCC	ATTATCTGTC	TTTCCAGTGA	TGAAATTTTG	ATCTGGCCCT	CCCAAGTATT
15661	AAAAACAAG	CAAATAAACA	AATCTCAGTT	ATATTTTACT	AAGATATTGG	CATGCTAACT
15721	TTTTGCAGGT	TTGTAACAAG	GACCTTTATA	ACTTGACTAA	AAGTTCCTAA	ATAAGAATAT
15781	TTACTAGAAA	ATTTATTTCT	GCCTGTGGCC	CACATTTGAG	TCAAAATAAT	CAATTAGGAA
15841	AAATGAACCT	GTTTAACTAA	AGTTGGCCAA	ACTGATCTTT	GAGACCTATT	CATCTAAGAC
15901	AAGCCAATTA	AATTCTTGGA	GACAATTTGT	ACTTTAAGGA	ATTCTTATAA	TATTTGTAAT
15961	TACCCTCATA	ACTTTTTTTTT	TGCCCTACTT	CTGTGCTTCT	CTAATATGCA	GATTATTTAA
16021	TGTTGTTACA	AAGCCATTGT	CAAAAAACAA	AAAAACAAAA	AACTAAACAA	ACTCACATGG

Figure 2 (Page 5 of 74)

16081	TTAGACTTGC	TCCTTTATGA	GATATTTT	CCAAAAATGG	AGGAGTTGAA	AAACTCTGGT
16141	GCCAGAAATC	GTGAAGACAT	GGCTACCTA	ACTTGGAAAT	GTGGTTGTC	AGTGGAAAT
16201	ACTACACAGA	GATAGCCATA	GTGCTGCACA	GCCAATCTTA	AGTGTTCCTA	GAGAATCACT
16261	AATTTGTTCT	AGAGAATCAC	TAATTTGTTT	CTTTTAACAT	TCTTGGTTTA	TACAAGAAGA
16321	GAGTATCCAT	ACTAAACTCT	TTTCTACTGA	AAATAATGTG	CAAAACATAAC	ATCCTATTCC
16381	TAGACAGTTT	GTAGTTTTTT	TCTCCCATT	CTATTTTATA	AATCATCTTT	TTAAAATACT
16441	TTGTTGAGTG	AAATCAGTCC	ATTGCTTGAT	ATACCTTGAG	CACAAGTAAA	TAGTATGCCA
16501	AAAATTAAAT	GTCTTTCAGT	CACAGTTTGA	CAAACTCAAC	TACCCTGAGC	CTATAGAGTG
16561	GTAATAATTG	CCCTACTCAT	AAAGATGGGG	TGAAGATTAA	ATGAAATAGC	ACCTATAGAA
16621	CAC TAGTTCC	AGACGTGGTA	TCATGCTAGT	AAAATGGCTG	CACAGCACTG	CTCAATGATG
16681	ACAAAAAGTG	AAGCTTCTGG	AGACAGACTC	CAAGTTTGAC	TCCCAGATCA	CCACATATAA
16741	GATGTGGGAC	TCTGAGGCAG	GTCATTTAAT	CTCTCTGTGC	ATTAGTATCC	TTCTCTATAC
16801	CTTTACAGTG	ATGGTAATAG	CACCTACCTT	CTAGAAGTAT	GTGAAGATTA	AAGATCCCTA
16861	ATGCATATAA	ACCACGTGTG	TTACTGCTGT	TTGACAAAT	TTATTTATAA	CCATCTTTAC
16921	GCTCCTAAAA	GGACTTGAAG	CAGCTTATGA	CTGAAGACTT	TGGTAGGAGT	TGGCCTTCTA
16981	TAAATTATAA	GAATTTTCATA	AATTAATTTGA	TATGAAAAATG	CCAGTTGATC	ATAGTATGTT
17041	TACCGGGGTC	CAACAGGTTG	AGAAAAAATA	CACTTTTTTT	CCCTGAACAT	ATGAAATTAG
17101	CTCTCTAGGC	ATATTCCCTAA	GGACTTAAAG	AATGATAACT	ATCATTTCTC	TTAAATCTTC
17161	CAGATTTGGA	AGGATATATA	TATTCAGCAC	ATTGACAGAC	AATCCCAGTA	GTCCCTAAATT
17221	AAAAGACATT	AAAAATTAGT	GAACTTTTTC	CTACCTTTAG	CCTGTGTAAT	CCTGGATGAC
17281	CAAGCATAAA	ATTAAATTGA	GTAGAGTATA	CCACTGTAAC	ATTTCCCTGAA	AGGTATTCTA
17341	GGCTCTGAGT	AATTTCTTTG	GGGTCTGAAG	ATCAGTTTGA	CATATCCTCA	AGTATCATGA
17401	GTTCATTATA	ATTAAGAAAA	AGGGAGTAAA	TCTGGAGAA	GAGCCACTTT	CTTACTACTC
17461	CTTGACCTCA	GTTCTTTTTT	TCAGAGACAG	GGTCTCACTT	TGTTGCCCAG	GCTGCCAGGC
17521	TGGAGTGTAG	TGGCGCAATC	GCATCTCAT	GTAACCTCCA	CCTTCTGGGC	TGAAGCCATC
17581	CTCCTGCCCTC	AGCATCCTGA	GTATCTGGAA	CCACAGCAGG	TGCACACCAC	CATGCCAAGC
17641	TAATTTTTTTA	AAAAGTTTTT	TGTAGAGATG	GGGTCTTACT	ATGTTGCCCC	GGCTGGTCTC
17701	AAACTCCTGG	GCTTAAGTGA	TCCTCCTGCC	TCAGCCTCCC	AAATTGTTGG	GATTACTAGT
17761	GTGAGTCACT	GTACCCCGCC	CCACTTCAGT	TCTGAGGAGG	AAAAAATATG	TAATAATAAT
17821	GGGACTTTGG	TTTGCTGATT	TAAAGATTCA	TGTAACCTTA	TCATCCAATG	CGCAATTTGT
17881	AGAATAATTA	ATAGAGACAT	CTGGTCTCAT	GTTTCTACAG	TTGCTCATGC	CTTGATAGTA
17941	GATCTCCTTG	CTGCTGGCTC	AGAAGGGTAA	AAGAGCAGAA	ATGATGGGGC	TTCTCTCATT
18001	CTATGAGGAA	ATAGACCTAT	GTAGAGGAGG	CTACCTGTGG	TAAAACCTTA	TCCTCATCAC
18061	TTAAAATTCT	AGGCTTATTC	TCTGACCATA	TCAAGTTTTC	AAATGGTAAA	AGAATTGGAT
18121	TCAAGAGAAA	TATGAATAAA	CTTTTGTTTT	CACTTTTCTC	CCTCCTCTCC	CCCCATTCTC
18181	CCTTCCTTTA	TTTTCTTTGTC	CTTAGTTTTT	TTTTCACTTT	TTTGTCTACT	ATTATTTGCC
18241	CAAACTCAAC	TGTAGGCTAG	AACAAAAAAA	AATTGAAAAT	TAAAATGTGC	CCCTTTTGTT
18301	GTTAGACTTG	CTTAAACAAT	TGGGGTAATG	AACCTTGGAC	ACTAGATTTT	AAAACACACA
18361	CATTTGAGCT	TCAGTGCAC	GAAATAAATA	TATTTTAAAC	AATTAAAAAA	TAAAATTGCA
18421	TGTTTAAAAA	ATCTGCAGAG	AACAATACAC	GTTGTGAGAT	CTTGAATGGA	AGGAAAACTG
18481	CTAGCCTCAA	GAGTGGATCA	AAGATGCTCA	GCAGGCAACA	GAGTAAGAGC	ATGTTGGAGG
18541	GTTTAGAGAG	TGTGCTCAGG	GTTC TAGGCT	CTAAAAATCA	GACAGTCCCC	ACGGCCTGGC
18601	CTTCGTCGCT	GTATCTTCTT	TATGAAAAAC	ACTAAGTCTT	TTTCCTCACT	GGATAAATTT
18661	TTATCCTTCA	AGTTTAGATC	AAATGGAAC	TTAGGACACT	GACTAGGTTA	CATTCATCTT
18721	TTAAGAGCGT	ACAGACATTC	AAGGGCTAGA	GGATGTGGGT	TTACTGCACA	GGCTCATTAT
18781	CCAACAGCTG	TGCTACCTGG	GAACTTAAAC	CTCTCTGTGC	CTTAATTTCC	TCATCTATAA
18841	CGCAGGGAGA	ATGACAGTAG	GTATCTCATA	AGGTTGTTGG	AACAACTAAA	TGCATTGGTA
18901	TCTATTGTGT	AAAGTGCTTA	AAACACTGCC	TGGCACAGAG	CAAAACATCCA	GTGAACTTTA
18961	GCCATCATCA	TTATCATTTG	TCTCAGAGTC	AAATACAATA	TCTCATATCT	GATAAATTAC
19021	AGAAGTGAAT	CAATCACTCT	CTCTCTTTTC	TCCAGGGGGA	GACAACAGCT	TTTAGACATA
19081	TCTTTTCCAA	CAGTCGTCAC	TGCTGGACAC	TGTTTCATCT	TGCAAAATAA	CCAATGAAAA
19141	TGAGTGATCC	TAGAAGAAGA	TAAATGGAGG	TATTTTGAAC	AATCAAAGAA	GGACAAATGA
19201	ACACCTGGCT	GAGAAAAATT	AGCTCTTTTT	TCTATGCATA	AAACTATTAA	AATATTCTTC
19261	ATAGAAATTT	ATGACACAGG	AAACATAAAG	ACAAAATTAA	AATAACTCCT	AGTATCTCCT

Figure 2 (Page 6 of 74)


```

19321 ATTCTTTTTA TATGTATATT ATATATACTC ATATTTCATAT ATACATATAT CTCACATCAT
19381 GTATCATATA TAAAATAAAT TTAGGTGTCA TGATATATAT TTAGATAAAT ATACTTAGAA
19441 ACTTTTTTAT GGATGTATAA TTTATGGATA TATTGATAAT TATGTATTTG TTATTGACTA
19501 CTTCAATTGA TTCCCATTTT TATGCATTAT ATTATAGATT ATATAGCTCA CACATCTTTG
19561 TACATAAATC TTTGTTCAAA TATTATTTCC TAAGGATAGA CTTCATGAAG TGGAAATACT
19621 AAATCAAAAG TGA AAAACAT TTTCTAAGGT TCTTAACATA TACATTGCCA AATTGCTATT
19681 CAGGATCATA CCAATTTATA ATCCCAAAT AATATGAAAA TTCTGTTTT ATAGCACTCA
19741 TATTTACAAT AAATTTTAAA AATCACTGTT AACCTAATAG TCCTTCAAAA GAAAAAAAAA
19801 TTGAAATTAC ATTATTTTAA TGACTCTATT AGTGAGGGTC ATTCTTCCCA TGTTCCTTGT
19861 TAGCCATGAC CCTATAAGAA ATAAACTGCA CTGCAAAATG ATAAACATGA TATCAATCAT
19921 TACATGGGAA GGCACATAT AAAGAATAAT ACCTTAGGTT AAGGCCACAT AAATATTTAT
19981 CAGGTGCCTT TTCTGCGGAG GACTCTGAAG GGATACTAAA CTGCATTTAG CTGCATGCAA
20041 CTGAAATTAC TTTTACCTAC ATTGTCTCTT ATAAACATTA TAACACTCTT TTGAGAAAAGT
20101 GTTTACTATG GACTGAATTG TCTCCCATC CCCCCAAAT CATATATTGA AGCCATAAAC
20161 CCCAATATGA CTCTATTCCT AGACAGGACT TATAAGAGGT AATTAAAGGT AAATGAGGTC
20221 ATTAGGATGG GTTCCTAACT GGATAGGATT GGTGGCCTTA TAAGAAGAGG AAGATTCTGC
20281 ACTTGGTCTT CCAAATTTAA TAATTTATTT AAAAGAAAAA AAAAAAAGA GGAAGAGAGG
20341 GAGCTCTGCA CATATACTGA GGAAAGGCTA TGTGAGCTCT CACAGTGAGA AGGTAGCACT
20401 CTACAAGCCA GCAAGAGAGC CCTCACCAGA ATCCAGCCAT GCTATACCTT GCTCTGAGAC
20461 TTCCAGCCTC CAGAACTGTG ATAAAATTTT GTTGTTTTAAA CCACACAATC TATGGTATTT
20521 TTTTATGGCA GCCCAAGCCA ACAAAGACAG CATCATTGCT GTCACCTTACA GACAAGAAAA
20581 CTAAGACTAG GAGAGAGAAA AGTTAAACTT GTCCAAGGTC ACAAAGCCA GAAACAAGTG
20641 AGGTGAGAAG TTGACCTTGT TCTCCTCAAT CCAAGGCCAG GACTCCTCCA CTCCACATGT
20701 AGATAGCCAC CTCACAGTCA ACAGCCAAAT GTCCACACCC CAGAGTCAGC ATTAGACCAA
20761 GATGTCTTAC CAGGAGACAA ATGCCCTCAT TTGAATAAAT ATGTTCTAAC AACTTACCCA
20821 TGTAAAACAT TGAATCTCAT GAGAAACAAA AATGCAAAGT ATGTAGAAAA CTATGTTTAC
20881 CACTTAACATG ACAGTGATAA AAAGCTTAAT GATATCCTTA TAGTCTTGGA GGGGTTTGTA
20941 TATGTGGTGA AACAGGTGCT CACGCACATG TGATAGACTG TAAATTGGTC CTAGAGAGAA
21001 AAATAAATAA ACTGGAAGGA GTTATGCTGT ATGTTTACTT TTTTATGGA AACATATGAT
21061 ATACCTGGAA ATTCGATTGG CCATGCATCT ATTTCTTCAA TGGGTATGCA CAGTTGAGCT
21121 GTTCCCATGC ACCAGGCACT GTAATGGGAC AACTGCACAT GACAGTCAA AATCTCAGTC
21181 TCATGAAGTC GACATGCTCA TGGAGAGGTG CTACCCACTA AACTAATATT TGTATATCAA
21241 TTATGGATAC ATTGGGCCAC ATTTACAGAA ATTCACCTAC AGTGGGTTAC CAGAAGGGAT
21301 TTTTTTTCTT GATTGGCAAG AAGGCTAGGC TGTTTTGTGT GGGGCTGGCA GGAGCTGTCT
21361 AGGCTGCCCA AGTATGCAGG TCTCTTCTAT CATCCTGTGT TAACCATCTT CCATGTATCT
21421 TTCAACCTCA TGGTCATCTG CAGCATGTCT AGGGGTCATA TCTATGTTCC ATGCAGGAAA
21481 AAAGGGTAAA GGGAAAGGGA AGTAGGCATG TACCATTTTA ATGCACACCT TGGTTTTTCA
21541 AAAATTTAAG AAGAAAGACT TTCTGCTTTT CTCTGACTAT TCTGTATTCT GGATTACAAC
21601 GCAACAGAAA CGTCACCTTA AATTCTAATG TTTTCTCTCT CTTGCTTTCA AAAACTGACT
21661 CATTAACCTC CACGTGGCTT GGAAAAATTA TTTTCTCTCT CCAGTAATGA GCTGTTTATA
21721 GAAATGTTTT GGACATCAAG TCTGTGTTGT TAGCATTTATA CATGTTAAGC ATTGAATAAA
21781 AAACAACATG ATGTGGGTAC ATTTCTTTTAC TTACATATAA GTACTTATAT ACTTATAGCT
21841 GAAAAGAGAG GTTGAAATGT CAGGTGGAAC AGAAATAAGA TTACCTAGAT GTTCTCCTTA
21901 TGGGTGATTT TCAGCTATGC TGATCTTTCT TCTGGGTCAG GTACTCCAG AACTTCTTAA
21961 TTAAATGGTG GCCCTGATCT TAGTTCTCTT CTCTCTTAG ACATTTTCCA GGACTACAGA
22021 AGATGTGCAG TTTATAAATG AGTAGCAGAA ACCTACTGAA CAAATTATTC AGGCTCATCT
22081 GAACAGAGAG GACACCTTCT CTGCTATACT CTCTCAGTGA TTTCCCTGCC TTGGGGTCAA
22141 TTATTGTCTT GGACATTGAT TTAAGCACAT AATAATTGTT GTCATTGCTT ATGTTTGGAT
22201 TTCATCTCCC AAAATAGATG GTAAATCTT TAGTTTAGAG ACCAAGTAAT ACTTACAAAA
22261 AAATTTTGTG TGTGTGTGTG TGTTTTTTCT GTGTCTCTCA GCCCTGTAAT AGCATCGTAC
22321 TTACACTTGT TAGATTTTTA GAGACAACTT TTACAAAACA TGAATATATC TACATACCTT
22381 TTCTACAAAA CAGACAAATT AAATACTCAG TAGTTGAACC AAAAAAGCA GTTCAAAATA
22441 AATACTTGAA AATGAAGAAA TCATTTGAAC AGAGTTAAAG TTAATCGTAA AATAATGTCT
22501 GTAAAAATTA TTGCCAATCA AATATAAAGT TCAAAAATAG TGCTTGAAAA AGGAAGAATC

```

Figure 2 (Page 7 of 74)

22561	ATATGAAAAG	GGACTACTCA	TTTTAAAAAT	GTTAGATATC	AGGAAAAGCC	AAGAAGTGAG
22621	TATGGTAAGA	GTGCTGTCAA	GTGAAACCC	GCTAATCTCA	CTGAACATGT	AAAAATCTGT
22681	AGATGCCTTT	ATTTTATTCA	CTCACACACA	TATGTAGAAA	GAGAAATATA	TGGTAAACAT
22741	TAAAAAAAAC	AAATTAGAAT	GTAAAAATTAA	TACTTTAAAA	AATGGGCTGT	ATACTTTTCT
22801	TATCACCGGA	GATAAGAATT	TATTATTTTT	AAAATAAAGT	TATTTTCTCT	GTGACTGTTT
22861	CCATGACTTT	GCTACTTAGA	AGTTAGAGAT	GCCAAAAGTTT	ATCTAAGAAA	ATGTTTATGG
22921	AAATATTATT	TCAATAATGA	ATGTTTAGAA	GACTGAATTT	CCTGACTGGG	CACAGTGGCT
22981	CATGCCGTGA	ATCCCAGCAC	TTTGAGAGGC	TGAAGAAGGA	GGATCGCTTG	AGTCCGGGAG
23041	TTCAAGAGCA	TCCTGGGCAA	CACAGCGAGA	CCCTGCAGCA	AAGTAAAAAG	AAAAAAGAAT
23101	TGAAAAAGGA	AGACTGAATT	TCCTTTGGGC	AAGTCATGTG	ACATTCTCTG	GCCTCAGTTT
23161	CTTCATCTAT	AAAGTTAATT	CCTACATTTT	TGGGGAAGGG	AGAGAAAAAC	TTAGGATAGT
23221	CATTGGCACA	GAAGAAGCAC	TATATACTAT	ATATATGTGG	ATATCATTTG	TTTTTATGGT
23281	ACCATTTTAG	CTATCTAATG	CAAAATATGA	ATCTTTTTTT	TCTGGGTCTT	AAATTATGGA
23341	ATGTAAGAAT	TTTCTAAATT	CTCTAATTTCT	GTGTTAGTTT	TAAAGCAATG	GAGTAACGTA
23401	TCTGTCAACT	TGTAAATATA	AGGATCAACC	TGATCCACAA	TTTGACCCCT	AGCCACTAAT
23461	ATTTAATAGT	ACAACACTCA	GAAATTATCA	AAGGTCAGAG	AAGCCAAAACA	AATGTAAAAA
23521	CATACAGGTG	CTCAGAAAGA	TGCACCTGTA	ATCTCTCTAA	GGAGAAATAT	TTTCCAAACT
23581	GAGTGACACG	GTGCTTTAGT	GAGTTGTGGA	ATCAATCTCA	TGATTTCCAA	CCTAGTGTTC
23641	TTTTAAAAAT	GAAC TAGTCC	ACAGTAGAAT	ATACTAAAGT	GCTGGTGCTT	AAGATAGTAT
23701	TGTTTTCTCG	AAAAAAAAAA	AAAATTTTTT	TTTTTTGAGA	CAGGGTCTCG	CTCTTGCCCA
23761	GGCTGAAGTG	CAGTGGCACA	ATCATGCTCA	CTGCAGCCTT	GACCTCCTGG	GCCCAAGTGA
23821	TTCTCCCACC	TCAGCCTTTT	GAGTAAC TGG	GACCACAGGT	ACGTGCCACC	ACACCCGGGT
23881	AATTTT'TTAA	TTGTAGAGAC	AGGGTCTTGC	TATGTGCTTA	GGCTGGCCTT	GTGAACTCCT
23941	GGGCTCTAGT	GATCCACTAG	CCTCAGCCTC	CCAAATTTAT	GGGATTATAG	GCATGAGCCA
24001	CCCTACC TGG	CCTGTTCCCT	GAATTTTTTT	TTCTTTT CAGG	TGTTTGTGCA	TATGTGTGTG
24061	TGTATGGGTA	TAACAGAGAG	ACAGAGAGAA	AGAAACTTTT	CTATCACACT	TTGCAATCAG
24121	AAGTTTGAAG	TCTTATCTTT	TGGCTTTTGT	TTTCAAAATA	TTTCAAATGT	AGACTCTCTC
24181	CTTTACCACA	CTGTCCCCCT	AGGCAAGGTC	TTTGCCATTC	TTCTGAGACT	ATTGCAACAG
24241	ACTCCCAACT	TCTGACTGTG	GGCCCTTCTC	AAAAATGATT	GTTTATGCAA	TAAATCTAAA
24301	CCCAAGACAA	CTACAACAAT	ACAACAAATT	CTCTGCTTAA	AAACTTCCAA	TGTCTGCCGG
24361	GCGCGGCGGC	TCACGCATGT	ATTCCCAGCA	CTTTGGAGGC	AGAGGCGGGC	AGATCACTTG
24421	AGGTGGGGAG	TTCGAGACTA	GCCTGGCCAA	CATGATGAAA	CCCCATCTCT	ACTAAAAATA
24481	CAAAAAATTA	GCCAGGCATG	GTGGTGGGCG	CCTATAATCC	CAGCTAATTG	GGAGGCTGAG
24541	GCAGGAGAAT	TGCC TGAACC	TGGGAGGTGG	AGGTTGCACT	GAGCCAAGAT	CACACCATTG
24601	CACTCCAGCC	TGGGCAACAA	GAGCAAAACT	CTGTCTCAAA	CCAAACCAA	ACAAAAC TTC
24661	TAATATCTAC	CAAATGTTTC	ACACAAGTAT	TTGGGGATCT	TCACAAATGG	CCCTTATGGA
24721	GTTTTCTCTT	GCTGAGACCC	TATGCTCTGG	CCACACTAAA	CTCATTCAGC	ATCCCAGAAA
24781	GGCCTCAGCC	TTTGTGAGCA	AGCTCTTATC	TCCAGGCCTC	TCACAAAGAC	CTGTTCCAGT
24841	AGAAGCTCAG	GGGAGCACAC	TGGACATTAT	TCCAACAACC	CTTTCCCCAC	AGCTATGCAG
24901	CCAAATCTGC	CAGCTCAGTT	AATTAATTAA	GCAATTCAGA	GATGAGGGTC	TGCCCAGGCT
24961	GGAGTGCAGT	AGCTGCGACC	TCAAGCTCCT	GGGCTCTAAG	TGATCCTCTT	CAGTCTACCC
25021	AGAAGCTGGG	ACTGCAGGCA	TGTGCCACCA	CACCCAGCTA	ATTTTTTTTT	TTTTCAGTAG
25081	GGACCAGGCC	AACCTAGTCT	TGAACTCCTG	GCCTCCAGCC	TTCCGAAGTG	CTGTAATTAC
25141	AGGCATGAAT	CACTGCGCCC	AGCCAACCCG	CCCAGTCTTG	TTAGACATGG	GGTCTGTAGT
25201	TTCTAGTAGG	TTCTTTGAGT	TAGGGTTTCT	ACCTCATGTT	TTATAGTTAA	TTTAGGGGAG
25261	GGACTGTGTG	TGTTTATCTG	GGGATGTAGG	GGTGGGCAGG	GGGATAGAGG	GGACTTCAAT
25321	TAATGAAACC	AGAAGCAAAA	CTCAGTTGAG	GACACCGGTC	ATGAGAGTGG	CCTGATTATG
25381	GCCAATCTTA	CATAATGTGT	GAGATCTTGA	TATTACCCCA	TCCTTGAGAG	TCCTCTATAA
25441	AGCTACAGGG	ACTTGGGAGC	ACCTTTAATT	ACAGACAACC	CATGTTCTCT	TGGATTATGA
25501	TTTATTAGAT	TGCACATGCC	TAAATAAAGA	CATCCTCTGC	AGTCTTTTGA	CAATTCTATA
25561	AGCATCTTCT	GACTCCGCAA	TTAGACAGCT	AAGAGATCTG	TGTTACTTCC	CTCACATATA
25621	TAAATAATTT	TAAATAAAAA	TCATGGCGTG	AATAATTTCT	TTCTCTACC	GATTTGAAGC
25681	TATCCATTTG	GAAGACC ACT	CTGAAGAGAT	GAAATAAGTC	TTCTGCCAAA	GATTACTTAT
25741	TAATTTACAA	GGAAAAGGGG	AAGTTTTGTT	CCTCTCCGTG	AATTTGATTG	AAAATCGAGG

Figure 2 (Page 8 of 74)

25801	GCTTTCTCGA	ATAGTTTGG	CATCCAGGGT	CATTTTTCAT	TAAAAAGAGA	AAAGTCATGT
25861	CAAATATGAA	TTTCCGCAGA	TTATTTCAGCA	CTAGACCCTG	GGAGATTCTG	TAAAGAGGGG
25921	TTTTGTATA	CTCAACTTTT	CCGGGTAAAA	CAAACACAAA	TACTCCTCCT	CCAAGGGGCG
25981	GGGGCGGTGC	CTAGGTGATG	CACCAATCAC	AGCGCGCCCT	ACCCTATATA	AGGCCCCGAG
26041	GCCGCCCGGG	TGTTTCATGC	TTTTTCGCTGG	TTATTACATC	TTGCGTTTCT	CTGTTGTTAT
26101	GTCTGAAACC	GTGCCTGCAG	CTTCTGCCAG	TGCTGGTCTA	GCCGCTATGG	AGAAACTTCC
26161	AACCAAGAAG	CGAGGGAGGA	AGCCGGCTGG	CTTGATAAGT	GCAAGTCGCA	AAGTGCCGAA
26221	CCTCTCTGTG	TCCAAGTTGA	TCACCGAGGC	CCTTTTCAGT	TCACAGGAAC	GAGTAGGTAT
26281	GTCTTTGGTT	GCGCTCAAGA	AGGCATTGGC	CGCTGCTGGC	TACGACGTAG	AGAAGAATAA
26341	CAGCCGCATC	AAACTGTCCC	TCAAGAGCCTT	AGTGAACAAG	GGAATCCTGG	TGCAAACCAG
26401	GGGTACTGGT	GCTTCCGGTT	CCTTTAAGCT	TAGTAAGAAG	GTGATTCCCTA	AATCTACCAG
26461	AAGCAAGGCT	AAAAAAGTCAG	TTTTCTGCCAA	GACCAAGAAG	CTGGTTTTAT	CCAGGGACTC
26521	CAAGTCACCA	AAGACTGCTA	AAACCAATAA	GAGAGCCAAG	AAGCCGAGAG	CGACAACCTC
26581	TAAACTGTGT	AGGAGCGGGA	GAAAGGCTAA	AGGAGCCAAG	GGTAAGCAAA	AGCAGAAGAG
26641	CCCAGTGAA	GCAAGGGCTT	CGAAGTCAAA	ATTGACCCAA	CATCATGAAG	TTAATGTTAG
26701	AAAGGCCACA	TCTAAGAAAGT	AAAGAGCTTT	CCGGGAGGCC	AATTTGGA	GAACCCAAAG
26761	GCTCTTTTAA	GAGCCACCCA	CATTATTTTA	AGATGGCGTA	ACACTGGAAA	CAAGTTTCTG
26821	TGACAGTTAT	CTATAGGTTT	AAGTTGTGAT	GCAGCTGAGT	TGAAAAGGCT	TGAGATTGGA
26881	GAAATTAATTC	AGGCCAGGCT	TCAAGACCAT	CCTGGGCAAC	ATAGCCAGAC	TACCATCTAT
26941	ACCAGGGGTC	CTCATPCCCC	CGGCCACCGA	CCGGTAACCG	GTCCCTGTCC	ATGGCACGTT
27001	ATGAATTGAG	CCGCACAGCT	GAGGGGTGAG	CGAACATTAA	CCAACCTGAGC	TCCACCGCCT
27061	GTCAGGTTAG	CTGCAGCATT	AGATAGATTTC	TCATAAGCTC	AAACTGTATT	GTGAATGGCA
27121	CATGCAAGGG	ATCTAGGTTT	CAGGCTCCTT	GTGACAATCT	AATGCCTGAT	GATCTGAGGT
27181	TGGAGCAGTT	TTAGTCCGGA	AATCATTGCT	CCCAGCCCCCT	GCACCCCTG	GTCCGTGGTA
27241	TAATTGTCTT	ACACAAAACG	GTCTCTTGTG	TCAAAAAGGT	TGGAGACTAC	TGGTTTTACA
27301	AAAAAGTAAA	TTAGTCAAGC	ATGGTTGGCA	CGCTCCCTTA	GTCCCTGCAC	CCAGGCGTTT
27361	AAGGATACAG	TGAGCTATGA	TGGTGCTACC	TCACTCCAGC	CTGGGTGACA	GCGAGTCAGA
27421	CGTTGTCTCA	AAACTTAAAA	AAAAAAAAG	TTAAAACAGA	AAAAGGGCTT	CTTGTCAGAG
27481	ACTGCCGTAT	ATCTAGAGGT	CCAGGAACCTA	AAAAGTCTGA	TGTCCAATCC	TGAAAAGCTC
27541	GATGGTGCAC	TAGAGGAGGC	TTTTACATGT	AAGAGCATCT	AAGTTCTGGA	AATGCCAGTG
27601	TCAGGGAAGG	GAAGTGGAGA	GCAATTTGGC	ATCCAAACAT	AACTTGCTGA	TACTTTTTTTT
27661	TTTTTTTAA	CAAGTACTAC	ATTCTAGTCT	TTCTGTGGTG	TCATTGTAAC	TATTGTTTCT
27721	TAATATGCTA	TCCACTGACT	TCAAGGGATC	AATAAATAGG	AATCAAGGTG	TCCAGAATA
27781	TGGATTAGGG	GAGTTTTTTT	TTTGTGTTTG	TTGTGTTGT	TTTCATCTAT	TCATTATCCT
27841	GTAGCTGAAA	TTTAGAATTT	TCTTCCATTG	TGTGTGACTG	ATAGAAATAA	CAAATTTGTA
27901	GGTTATAGTT	GTTGCAAGAA	TCTGGAAATC	GTGCTTGCTT	ATTTCCGAAG	TACTATTAGG
27961	TATATCAACA	AAAACACACA	TATTACGGTC	AAGTGGTTTG	ATAATTATTT	TAATATTATT
28021	GGTCTAATAC	AATTGTAAACC	CTATGAATTA	CTTTAAGTAT	CTTATTTATG	AAAAGAATCT
28081	GTAAGTTTCA	TCAAACCTACC	AGAGCATACC	GAAGACTGAA	AAATTTTAAAG	AATCCAAACC
28141	TTAATGGAAA	TGTTGGAGGC	TGCCCAATTA	GGTTCTGAAT	TCCACCTTCC	TGAATCACAA
28201	ACTTGTTTTA	ACTCTCAGTC	TGAGGTAAAC	TACGTTTCTC	TTTAAACAGA	CATAGTTTAA
28261	TTTTCCTTTG	ATTTTGTGAT	TAGTATTTCT	ACTGATCATC	ATAAATAACC	AATGCTAATG
28321	TTAGTCTACT	TTGGACCATG	GTATTTTCGAG	AACTTTTGAA	CAAAGTCCCC	TGCAAAACTA
28381	TGCATTGCAT	TATTTACAT	ACATTTATGT	TTTCCAGACG	GTTCAATAGT	ACCTCACTTT
28441	TCTGAACCTA	TTTGTTATAGT	TTGGCATCTT	TTTAAAAATT	GTGTCTTATA	ATGAAAGGTT
28501	GTAAACATTA	TGTTTTAAAT	TTGTATAGAT	AAAATCAACC	ACAGACCTTT	CCTTGCTTGG
28561	ATGTAATTGC	CATTGTTTCC	CAATGAGTTC	GGAATTACTA	GGATTGTGCA	AAAATATGCC
28621	TCACTTGCCCT	GACATAGCAG	AGAGCCATTT	TGCCTAAATG	CTGTGCCCAG	CAATGGACTG
28681	TCACCAGATT	CTCATCACAT	ACAGTGAGGA	TGAACAACCTA	GCCTCTCCCA	GCAGCTGGCC
28741	GGTCTCTCAA	TAATATGGGA	CTCCCTCAAG	ATGGCTTCCT	GCACCTTTGC	TCCTCTAGCC
28801	TTGTATGTAT	ACAAGGCTAG	CATGCCTGGC	ATACATAAGG	TTAAAAACAA	AATCAATAAG
28861	TTATGGTTCT	TCCTCCAGTT	CTGGGGATTA	TTAGACCACT	TTTTTGTTTT	GTTTTGTTTT
28921	GGATGGAGCC	TCGCTCTGTC	ACCCAGGCTA	GAGTGCAGTG	GCACAATCTC	GGTTCAGTGC
28981	AACCTCTGCC	TCCTGGGTTT	AAGCAGTTCT	CTGGCTCAGC	CTCCACGTA	GCTGGGATTA

Figure 2 (Page 9 of 74)

29041 CAGGTGCCCG CCACCACGCC CAGCTAATTT TTGTATTTTT AGTAGACGGG GTTTCACCAT
29101 CTTGGCCAGG CTGGTCTTGA ACGCCAGACC TCGTGATCCA CCCACCTTGG CCTACCAAAC
29161 TGCTGGGAAT ACAGGCGTGA GCCACGCGC CCGGACTTAG ACCACTTTGT TTTGGCCAAT
29221 AGGACAACAG CCATAGAACC CTCCGCAAT GAGAGCTTGT CCCTAAAGAT GCTTTATTTA
29281 CATAGCTGTG TGCCGCATGA GCCAAAAGGT GATAACCTTT GTTCAACACG CGCCTCCAGC
29341 CCTTCGGTTA AGTCCAAAGT ACCATTCTTA GAATGCTCTA AAATACATAA TTTTTTTTTT
29401 TTTTTTTTTT TTTTGTAGGA GTCTCTCTCT GTCTCCAGG CTGGAGGGGA GTGGCGCGAT
29461 CTCGGCTCAC TGCAATCTCT GCTTCCGGGC TAGCTGGGCC TACAGGTGCA GACCACCACG
29521 CCCGGCTAAG TTTTGTATTT TTTTGTGGTAG AGGGGGTTTC ACCATTTTGG CCAGGCTGGT
29581 CTCGGATTCT TGATCTCAAG TGATACACTA GCTTTGGCCT CCCAAAGTGC TGGGATTACA
29641 GTCGTGAGCC ACTGCGCCCA GCAAAATGCT TTTTGTGGAG CCAATCACTT TATTAGCGCT
29701 TACCTCTCTA TGCCTACTTT ATGCTTTGAA ATTTTGTAC AGTGGGGCCG GTCATGGCAA
29761 ACACAATTCA TTCTTATGCA GGCTGTCACG GTTATTTCTG TCATCCAAAC TCATTCTCGC
29821 AACGCATTTT AGCTCTTTAA ACGACTTTGT GAGCGGCCCT GAAAAGGGCC TTTGGGTTTT
29881 TTTGTTTTTT TTTTTTGAAG TTCTCAGGAG ACCGCGTATT CTTAGATTCA GCCGCCGAAG
29941 CCATACAGAG TGCGCCCCTG ACGTTTCAGG GCATATACTA CATCCATGGC TGTGACAGTT
30001 TTGCGCTTGG CGTGCTCCGT ATAGGTGACG CGGTCTCGAA TAACGTTCTC TAAGAAAACC
30061 TTAAGCACAC CTCGAGTCTC CTCATAGATA AGACCGGAAA TGCGCTTGAC GCCACCGCGC
30121 CGAGCCAAAC GCGGATAGC CGGTTTTGTA ATGCCCTGGA TGTATCCCG GAGCACCTTA
30181 CGATGGCGCT TAGCACCACC CTTCCCCAAG CTTTTTCCGC CTTTGGCCGC ACCAGACATG
30241 ATTCTATCG CAGTGGAAGG TATGAAGTGA AACAGTTCCT TAAATACAAA CTTGGCGGAC
30301 CTGATTGAAA ACAACATGAG TTGGCGCGGT TTTTTTTTTT TTTCAAATTT GGTCAACGAG
30361 TGGGTGGAGC AAGAAAAACT GTTTCATTAT GGTTCATTGT TTTGATTGGC CAGTGACAGC
30421 TTGCTCTTTG TGGGAGTGGA AGGGTGTGTG CAAGTTGAAT GCGCTGTATT CCTGTGAGCT
30481 TAATGACGCT AAGCATAGCC CCATTCCACA TTTCTTTTTT TTTCCACTTG CTAACATAATA
30541 AATTACGGAA TAGTTTATTG GGAACATAC AAATAATGTT TAAAGGAGGT CAGATTTATA
30601 GGTCAGGGA TTTACCCTCC CAATCATTTT AATATTTTTT TTTAAACCAG GCATTTTGAT
30661 GGCCTTCTCT GTGCTGGACA AGGTATAAGT TTGGCTATGA AGTTTCACTC CTAAAGACCC
30721 TATGTTTTTG GAAGGCAAAA AGGTAGCCAA ATAATTGCAA ATTAAAACCT CATAAGTGCA
30781 AACGTCTTCC TCGTCACTTT CCCTATCTCG ATTCAAATAT TTGTTGAATG ACTCATTTTT
30841 CTGCAAAAGT CTGAGAGAGA CAGGGAATAT AAACTTAAGT CTGGATAATA TGTTTTCCCG
30901 GGACGCTCTT CCTGGTCTGC TGTGCCGTGT TGCTGTGCCT GAAATTCCAA ACACTCTTCC
30961 CTTCCCTCCG TTTTAAATCC CTTTCAACT TGCTACAGCT TTAGAGAAAA GAACATACGT
31021 TTTGTACAGT TGGGGATTAA TTGAAGTGA GGGCTAATAC TTGATTAAG TCATTACAAA
31081 ATCTACAGGG TCTTCTCTG GGAGGTTTTT GTGATAAGAT TATTGGTGT AAAATAAGGC
31141 TAATCCCCTT GAAAAATAAA TAGAATAGCA GAATTGGGTC TGAATGTGGT TTGAAGAAAG
31201 GGACTTCTCA ATTCAAAATT TTATTCTTAG CTTCCTGTGG GAGCTTTCCA GAATGCCCAT
31261 AAGATCCACT TTTGTTTAAA AAACAAAAC AACCCACCC ACCACTCTCT GGTAAATAAA
31321 TGAATTTCTA TTGGGAATAT TTAGAATGGG GCTGTGGCCT GTGAGAGACA TTATATAGTA
31381 ACCTCAGACT TGCTCACATG AAGAGAAGAA ATCCAGGAAT GGAGAAAAAA GACCCAGGAA
31441 AGGCCAGAA GCTCTACATG TCATATTGTT TGTATCACTT CTGAAATAAT TGATTACATT
31501 CTTCTGCCCC AAATTGAGTT CTTAGGTTCT TCCACTCACT GTCCACATGC CACAACACAG
31561 ACCTTATAAC TAGAGACTTA GCTAGGAAGA AATGTCAAAC ATTACAGAGA AAAAATGCAG
31621 AGTCTGAGAT CATAAGTAAA ACTCTGAAAT CTCAACATGC CTTTTAATTC ATGAAAAATA
31681 AAAATATAGC AGCATATGCA ATATGATAAT TCTCTGAAAA CATAATCAT GTGAACATACC
31741 CTGGAACACA TCTCGCCAAG TGCCATCTTC ATTTTAACCA GAGGTCTAGG ATGCCCTTCC
31801 TTTATTTTGC CTATTATATC ATTTATAAAA CCCCATTTTT ATTTTGATAT TTTATTTACT
31861 TTCTATTTCC TGCTCCTAAT ATCTCCTTTC TAAACTTTTC TCAATGACAG TGACTCAAAA
31921 ACAATGAATG TCAGAACAAA TATTTAAAGG ATCTGTACAT GTAGATATAT ATATTAAAAA
31981 TGGATTCTTC CACTCTGGGA AGAATTCAGG CATACTCAAT CTTATGGTTA GGGAGAGATT
32041 AGGCTCACTC GCCTAATCTG TATGGCTTCT CGTTCGCTTT CCATTTTACC TTCTCTCAC
32101 CCATCAGATC AAATCATTC ATTGAACAAG AGACCTAAGC CCTTCAGATT AAAACTCTGC
32161 AAACAAGTTG TGGTTGAGAG GATACATGAA GCATTCAAAC AAATAAATCT ATGATATTAA
32221 TCAGAGGTTA ATCTATGATA TTAATCAGAG GTTAATGCAG TGGCTCACGG CTGTAATCCC

Figure 2 (Page 10 of 74)

```

32281 AGCACTTCAG GAGGCTGAGT TGGGAGAATC GCTTGAGCTC AGGAGTTCAA GACCATTTTG
32341 GGCAACATAG CAAGTCTTCA TCTCTACTTA AAAAAAATA ACCAGAGGTG TTATGAAAT
32401 ATAAATTGTC CAGAACTACC CTCCACAAAC TAACTCTCTC AGAATATTCG ATATGAGGAA
32461 TGAAATATGG TGTGTGTGTG TGTGTGTGTG TATGTGTGTG TGTGTGTGTG TGTATGCACC
32521 TATATATGGC ACCTATATAT TCAACAAACA ATTCTGATAA TTGGCCAGGG TTGAGAATGA
32581 CTAGCAGCCC AGCATACACT ATCAGTTTTA AGTATATAAT TGCCTTTAG TAAAATGTAA
32641 AGAAATCCCA GAGTAGAAAT ACTTTTAAGC TATATTACAG GTGAGAAAAT GCATAAGTAT
32701 AGTCTCACCC AACTTAGACT ATGGGGGCTT TATAATGTCA CAACAGTTGT TTCCAGGCAT
32761 TTGGGGACAT CACCACTGGT CTTGGGCAAG AAACCTCCTCT AGCCAATGGC TGATTTATCT
32821 CACTCCCATC TAAGGCTTCA CTGCATTTCT CTTTTTCAGC AACCTAACTT ATTTAAAAAT
32881 ATCCATTTTC TGATTCATTT TTTTCTGAAT TAAACTGTCA GTACCATTGG CACACCTTTG
32941 GTTCCGTAGC ATACCTGTGT CTCTGCTGTG GTTTTTTTTA CCTCCACTCC TTACTTTTCT
33001 AGAAAAAAT CTCTGCTTTT TCTTTTCAGT TTAAATTATT TCACAAAAG TTTTCTTGAC
33061 TTGCACCTCC TAGGCTTGCT GTCTTGTGT AGGACGCTC CCATAAACAC TATTAATACA
33121 CTTTCGATTTG TTAATAATAA AGATATCTGG ACAGAAAAT TCTTTTCTTT TTTTAAGATT
33181 TTAATAATTT TAATGTTTAT TTTTTTCCTA GACTGGAGTA CAGTGGCACC ATGATGGCTC
33241 ATGGTAGCCT ACACCTCCCC GGGCTCAAGT GATCCTCCCA CCTCAGCCTC CCAAGTAGCT
33301 GGGACTACAG GTGTGCACAA CCACACCTGA CTAATTTTGT TTATTTGTTT GTTTTGTTTT
33361 TTGAGATGGA GTTTCGCTCT TGTGCCCCAG GCTGGAGTGC AATGGCGGGA TCTCGGCTCA
33421 CCGCAACCTC TACCTCCAG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG
33481 GATTACAGGC ATGCATCACC ACGCCAGCT AATTTTGTAT TTTTAGTAGA GACGGGGTTT
33541 CTCCATGTTG AGGCTGGTCT GGAACCTCTG ACCTCAGGTG ATCTGCCCCG CTGCGCCTCC
33601 CAAAGTGCTG GGATTACAGG CGTGAGCCAC CACGCTCGGC CACTAATTTT GTATATTTTG
33661 TAGAGATGGG CTTTCCCTGT GTTGTCAGG CTGGTCTTGA ATTCTGGGC TTAAGTGATC
33721 TGCCACCTT GTCTCCCAA AATGCTAGGA TTAAGGCGT GAGCCACCAG GTCTGGCTGG
33781 AAAGATAATT TCTAACATTA TCCTCTCTTA AACATTTGTT TCAAAAATTT TACAAACATG
33841 AGAGTAATTA AATTTGATTT TCAAAATTC CTGAATACT TTCTTAATAG CACACAGAAA
33901 GCACAAAGTA TTTTACATTT GTTTTAATGA TGAAATTGTG AACCCAAACT TACACAAAGA
33961 AAAACCGTAA CATTATACCC ATACTTAAAA CAGATGCCCT CATATACATA GTAAAACCTC
34021 TGGGGGCGAG AGTGAAGTTG GTTATTTACT GTTTTATGAA AGTGCCATTC AGCCGGGTGC
34081 AGTGCTCAT GACTGTAATC CCAGCACTTT GGGAGGTCGA GGCAGGCTGA TCACGAGGTC
34141 AGGAGTTCAA GACCAGCCTG ACCAAAATGA TGAAACCCTG TCTCTACTAA AAATACAAAC
34201 ATTAGCTGGG CGTGGTGGTG TGTGCCTGTA GTCCAGCTA CTCAGGAGGC TGGGGCAGGA
34261 GAATCGCTTG AACCTGGGAG GCGGAGATTG CAGTGAGCCG AGATCGCACC ACCGCACTCC
34321 AGCCTGGGAG ACAGGGCGAG CTCCGTCCTG AAAAAAAAAA AAAAAAAGT GCCGTCATAG
34381 TGACTTAGTT TTAAGGAATA AATCAAGGAT ATTTAACTCA ATAGACTACA GTTAGCTAAC
34441 GTGACTTGCA CTGAAAGTTA TACGAATATT GGTACTTATT CCCCTGCCCC TGAAGTATGA
34501 ATTAAAGACT CCAAAATCTT TTTTAGAATC TTCAGAGTAA AAGCTAGAAT TTGATTTTTT
34561 TAAATAATAA AAAAATACTT TGTATCTAAA TCTGGTGTAT AAAATAACTT GGTGGATGAT
34621 GCTTCAAGGC TATCCATCCC CAAATTTCTC CCTGAATGAT AAAGAGAATA AATGAATATG
34681 TCAATTCAAA AGTTAGAAAT TTGGCCGGGC ACGGTGGCTC ACTCCTGATA ATCCTTTTCG
34741 ACGCTGAGGT GGGTGGATCG CATGAGCTCC GGAGTTCAAG ACCAACCTGG GCAACATAGC
34801 CAGAACCCGT TTCAATAAAT AATAGAAAAA AATGAGCCAG GCGTGGTGGT CCCAGCTACT
34861 CAGTAGGCTG AGGTGGGAGG ATCACTTGAG CTCAGGAGGT CGAGACTGCA GTGAGCCGTG
34921 ATCGCAGTAC TGCACACCAG CCTTGGTGTC AGACTGAGAC CTTGTCTCAA CAACAACAAA
34981 ACAAGTTAGA AATTTGGCTG GCGCGGTAG CTCACGCTG TAATCCCAGC ACTTTGGGAG
35041 GCCAAAAGG GCGGATCATT TGAGGTCAGG AGTTCGAGAC CAGCCTGGCC AACATGGTGA
35101 AACTCCATCT CTAATAAAAA TACAAAAAAA CTTAGCCGTG CATGGTGGCA TGCGCCTGTA
35161 GTCTCAGCCA CTTGGGAGGC TGAGGCAGGA AAATTGCTTG AACCCAGGAG GCAGAGGTTG
35221 CAGTGAGCCG AGATCATGCC ACTGCATTC AGCCTGGGTG ATAGAGTGAG ACTCCATCTC
35281 GAGAAAAAAA AAAAATTTCT GTATGAAC TGATGAATAT CCTTAAATTT TAAAAATACAT
35341 CTGAAAAGATA TTTCAAAATA TTTAGGAAAA AAATTATAGG GATCAGGCAA ATTCTGAGAT
35401 TCCTTTTTC CTGCAGCAA CATTAGGAGT GCTGCTGTTT CTAAAAACAT GGTAACGTGT
35461 GCCACACCGT ATGTTTCCTT GGCTCAGACA TAAGGTTGTG TAGTTGTTAT TCCAGAATAG

```

Figure 2 (Page 11 of 74)

```

35521 CTAGAATAAA AATCCAGCAC ATCATTTTCT TCAGCAAGTT AACTAACCTC TCTGTGCCTT
35581 GGTTCATATA CAGCAACATA AGCATAACAG AATAGCAGCA ATAGCTCCTA CCTACCTCAT
35641 AAGATTCTTT GGAAGAATTA AATTAAGATT CAGAACACAG CCTAATATCT AGTAAGTAAT
35701 AATAATTGGC TAAAAAAATT TTCTTAAGAT TATATATATT CATGGGGTAC AAGTACAATT
35761 TTGCTACATT AATATATTGC ATTGTGGTGA AATCAGGGCC TTCAATCCAT CCCGGAAAAA
35821 AAAAGTTTTT GAAAAGATTT CTGCCATGGA AAACTTTAA TGTACAAATT CATCCATCCA
35881 AGAAATAGAA AATATATAAG TATCAACTCC AAATCCACCA TATCTATCTC TTCTGCACCT
35941 TAAACAATTA CTCAGAAATA GAATGCTTGA GATACCAGAA TGCATGCATA TCAAGTAATA
36001 AATGCATGCA GGATGTCAAC GCATCCTAGG CTTTCAAATA AAATTGTCAT ACAAATACT
36061 TTAATATTGT AGTAACATTC TACATGTTAG AGTGTAAGA TTAATCGCTG ATGCAAAAAA
36121 GGAAAAGAAC ACATTATACC CAAAGCCTAC AGAGAGAATC ACAATTACAA ATATCAGCCT
36181 GCATGTGAAA ATCTTTAATT TGAAAGTCAG AAATATTTAA ATGATAGTCA TTGTTAAATC
36241 AGATTGTGGT TTGAAAAAAA GTTAGTTTAA AACTGAGTTT ATGAAAAATT TGGGGATTTT
36301 AGAGACAGTG TTTTGTTTTT AAATGTGTGT GAGTTTGTGA AGAATGTTTT ATAAAATACT
36361 GACAGTATTA TAAGATGACA TTATTATAAT ACAACATAAG AATTTTGGCC TGTACCTCTC
36421 AGCAGTCCTC AATCACCTGC TGTACTTGAC TCAATGATTA TCAGAGTGGT TTGTTTTTCT
36481 TCTGTTGTGT TCCCAGTTCA GGCAGCTCAG CAATGGCCTG TGATTCCAGC AATTCAAATA
36541 GCTGGTAAGT AGTTTCTTGT TTGTTTTCTC AAATTTTCAG GGGCTTTTCT CTACAAGTGA
36601 TTTCCAGTGC ACGCCCCTCC ACCCATTTCT TATTCCTTTA CCTTCAGGAA AACCCTCAGC
36661 GCTGCATCTC TGGTCACCGG ACCACCGTGG TACATTTACC TATGGCCACC AGGTGTCACC
36721 CTTCTCTTTA CTACCATGGT TTGTGAATGG TTTTGCCAGA GGTGAATAAG AATTTAAAT
36781 GCAGGTCTTT GATTTTTCAA ATGTAGTTGA CCTTAAGAAT TTATGAATAA AGCCAGAAAA
36841 ATTAAGCTTA AAAAACACCG AAAGAAAATG AGGACTTAAA ATTTCTATTA AAAAATTA
36901 CAGGCCACAG TTGCTGATGT TTAGTAAATG TGTAGTGAA ATGTGTTACT GTGAAGACTG
36961 GGGTGTCTCT TGAAATCTCA GCCCAGGTGA AATAAAACCA ATATAAAACA AATGCTTACC
37021 TAATAAATTA ATTGTAACAT ATTCTTATG AGGTAGAAGA GTAAGTGAAG CCTTATAGCA
37081 GTCTGCTTTC AGTATAGTAA GATATTAAGA GAGAAATAAT TTGTCATATG CTTTCAGAA
37141 GGTTTGCTGG TAAAATAACC AATGTCTTAC AACTTAGACG ACAATGTCCC TAGAGTGAAG
37201 AAACACGATT AATTCGGCTA CCACAGTTGA ATGAAAATAT TCCGTAAGAC AAAAGCTAAA
37261 GAAATTAGAA GCAAAATAAA TGTCTCCAAA ATGACAAAGC GATTAAGTAT ATACACAAGA
37321 TGAACAAGAA CTTCAATAAA ATCATGCAGT ATACAATACA ATGTACATTT ATTAAGTAT
37381 ATGCATTTTT AATGCAACAA TAATACTAAC AGGTAATAGA CAAGTTGTTA ATAGTTTTTC
37441 ACTGGCTAAT TAAATAACAG CTTTAATTGT ATTCATTTTA TAGCTTTTCT ACAATGAGCG
37501 TAAATCACAT TTACTTTTTT CTACATAACT TTTCTAACCA CAAAAAAGA AAATGGTTTA
37561 AAAGAAGAGA TGAGATATCT TTGCTAAAAT TTAATGCCTA AAGAAGAAAC TTCTGAGCTG
37621 TATATGGTAT CCTGAAGCAC CTGCCCTTCA AGACAGAATG CTTGTACCAC ATTTATGCAG
37681 CCAAGTGCAT GTAGTAACAT AAAGTAAACA CATGCCATCT GGATATATAT ATTAAGACTC
37741 TTTTGACGGC TGGGCAGGGT GGCTCACACC TGTAATCTCA GCACTTTGGG AGGCCGAGGC
37801 AGGCGGATCA CGAGGTCAGG AGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCTGT
37861 CTCTACTAAA AATACAAAAA TTAGCCGGGC ATGGTGTTGC ACGCCTGTAA TCCCAGCTAC
37921 TTGGGAGGCT GAGACAGGAG AATCGCTTGA ACCTGGGAGG CAGAGGTAC AGTGAGCCGA
37981 GATCATGCCA TTGCACCTCA GCCTGGGCAA TAGAGTCTCA AAAAAAAAAA AAAGACTCTT
38041 TTGAACATGG TGAACGTATT TCCCAGAATC TAGCAATTCC TGAATGTCTT GGTAGATTT
38101 TTTTTTTAAT GTGCACCGGA ACCCAGTGG CTCCATGGAA GGACCTGGGC ATCCTCTAAG
38161 CCACTTGGTG GCTTCCATTA TACCATCTCA AAATGAGAGA GCTTACTCCA CTTCATTGAG
38221 GGAAATACCA CCAGAGTTCT GACTCCAGAG GCACTGGCCT AGGGAGGACA CCGTGTGTGA
38281 AGCCCAGCAG GGCCACTAGC TGTCCTCCACC AATTACAGTC CTTGCGTAGG GTCCAAAGAA
38341 ATGAATGCCA AAGAGAGCAA CAGAGGAGCA AGGGAGTCAC ATTCCAGGAC CTTCTTCAG
38401 GGACTTTTAA AGGAAACATG ACAGCTGAGG ATCAGTTGGT TGTCTTCTGC TGTCCCCCTT
38461 CATGTGATTC AAGCTCATTG AGAAGAAACA CAATGAGACA AGAGAAGAGC CATCTCCTTC
38521 CTTCTCTATT TATTCTAGGC ATCTAAACTA CTGAATGTAG TGGTGTCTGA GATGTATCAA
38581 ACGGTCAGAT TGAAGTGGT TGAAACCTGT TTCTATCACT GACAACTAT GAGATACTCT
38641 ATACTTCACT TTCTTTTTTT TTTCATTTTT TTATTTTTAT TTTTATTTTT TTGAGATGGA
38701 GTCTCACTCT GTCACCTAGG CTGGAGTGCA GTGGCGCAAA CTCGGCTCAC TGCAAGCTCT

```

Figure 2 (Page 12 of 74)

```

38761 GCCTCCTGGG TTCATGCCAT TCTCCTGCCT CAGCCTTCCG AGTAGCTGGG ACTACAGGCG
38821 TCTGCCACCA CGCCCAGCTA ATTTTTTTGTA TTTTATTAG AGATGGGGTT TCACCATGTT
38881 AGCCAGGATG GTCTCGATCT CCTGACCTCG TGATCCACCC GCTTTGGCCT CCCAAAGTGC
38941 TGGGATTACA GCGGTGAGCC ACCGTGCCCC GCCTACTTCA CTTTCTTCAT TTAAGAAAGA
39001 AATGGGGATA ATAGTACCTA TCTCATAGAA TTATTGTAAG AAGTGCATGC AGTAATGCAT
39061 GTAAGTAGGT GCTCAGAAGA GTCGGACACG AAGTAAGTGC TTTTATCATC CTTATCATAA
39121 TTTTCATTAT CAGAACAAGG AGAGACCAGG TAGAAAATTA TTGTGATTCT TCAGGTCTGG
39181 AATACTAGAG TAGCATCCCA AATGAAGGCA CCATTAAACT TTGCAAATCT GTATGACACC
39241 TTCATGCCAA TTAGAAAAAA CACCTCTTCA CAACCCCTTT CAAGATATTT GCCTCCTACC
39301 TGCTAAAAAC ACCCATCATA CTACCCACAG ATAGCCATGA TGCTTTTTCT GGGACAGGTG
39361 CCTCTTCCAT TCGTGCAGTG TACAGCCTTC ATAGCTGTGC AACTCACATC ACAATCAGAT
39421 GGAAGAATCC CCAAGGCTTG GTGACAGATG AGTTACTGGG TAACACAGAG AGAGGATTCA
39481 AAGGAAAAGT TGAACGGGTC CAGAAAATGC ATAGATACAT GTGTAAAAAT CTGGTAAGGT
39541 TATGACTAGC CACGTCCCAG GGTTCAAAGC TTTTCTCAGA TGTAAAAATG AATCATGTAA
39601 GTCCCCCAA TTTAAGGAGT CCTCTTCCAA AAATAGGAAA TGAAATGACA TAGGTGTATG
39661 TCTCTGAGGT GACGGAGGAA ATGAAGGAAG CCTCTAGATG CAGCTTGAGG TTCATGAGAG
39721 ACAGTTCCAG GGGAGAGGTC ACAGCTAGGG ATCACCAGCA TGCAGGAAC CAGAAACCTA
39781 AATGGGGAAA TCTTTTTGAG GAAATGAACA GAGAAGGCTA AAATCAAGGA GTTCGTCAGG
39841 CAATTTCTAT GTTTAGGTTT AACTCTCTCC TGAAACATGA AGAGCTCATA AATGCACTCC
39901 CTCTTTGAGT CTCTAGTTTT GTCTCCTTCC CACAGTGAGT CTGCAGGCTG CGTGTCACTC
39961 ACGTTCAGCT AAGACGTAGT GCCCCATGGC TCCTCCTGTG GAGACAAGAG ACCCAGGAAA
40021 GAGGCATCAC AAACCTAGGC ACCATCTTGC CTCTTCTCTC TTCCTTATTT TCCTCATTTCA
40081 CACTCTCAA TTTAGACCTG GGCATATTG GATTTCAAGA ACCATTATCT CTCATCTGGA
40141 AATGCTTATT GGCTTTCTAA CTGGTCTCCT CACCTCTCAT CTAACCTCTT AACAAACAT
40201 TCACCATATA AGGGAGATCG TGGTCTCCTT TTCTTAGGAT CCTTCAATGA CACCCAGTG
40261 ATCATAACCC AATATCCCAA AAGACCCTTG GACTCTGTAT GAGCTGGCTT CTTTCTGATT
40321 CTCTTTTCCC TACACCACAG ATGTTTAGGG GGTAGAAATG CATAATTGGT GAGTGATAGC
40381 TAAGCAAAC CAGGGTTAAG GTACAGTAAT TATTTCTAAT CTCCAGTAT GCCTTATACT
40441 CTCCTACTTG GCATGGTTGC TCCGTCTGTG TAGACCTCCC ATCATCTTCA ACCACAGCTA
40501 ATGGAATCCA GCTTCTCCTT CAAGATCCAG AAGGCTATCT TGATCCCCAG CTGAATGTGA
40561 TCATTCTTTC CTTTGACACC CTAAGCATTT GCTTCCTGCC TGCTTTAGGA CCTCATGGGG
40621 TCTTCTTTAA CTACATTTAC TTGCTATCAA TTTTATTCCC TACCAGATTT GGGTCTGAG
40681 AATAGCCACA GTGACTTCTC AACCTCAAAG CCCCTGTACT ACCTTAAACA GCTCTTGCAA
40741 AATAGTAGGT GCTCTGAAGA TGTTTGTGTA ATTAGAGACT TTCATTCTGG GGAGAACCAT
40801 TATTTTCTGT CTCCCAGGGA GCTGCTGGTG TCCCCAAGA ATATAAATGA GAAAAATGCT
40861 TCCCATGGAT GCCAGATCCC CTCTGCCCCT CTTCCTACTG TGCCCTGGGG CAGAGGTACT
40921 AAGAGACTTC CCCCTTGTTC CTACTCACTT GAACCCCTGCC TCTTCTTAA TATTATGAAC
40981 AAAATTCCAA TGAACAAGAT GACGACAAA ACAGCAATTC CACTGATGAC TCCAATGACT
41041 AGGGTGCCAG ACGGTGAGGG CTCTAAAACA GAAAAAGCAA GTTAAAGCCT TTGATTGCCA
41101 CCCTCAGCCC ACCCCCTAAC AAAGAGCAGA TCCTCATCTC ACTGCCATAA TTACCTCCTC
41161 AGGCACTCCT CTCAACCCC AATAGATTTT CTCAGCTCCT GGCTCTCATC AGTCACATAC
41221 CCCAGATCAC AATGAGGGG TGATCCAGGC CTGGGTGCTC CACCTGGTAC GTATATCTCT
41281 GCTCTTCCCC AGGGGGTACA GCCAAGGTTA TCCAGCCCTG GTAGGTCCCA TCCCATTGG
41341 GCAATACGTC TTTAGGTTTC AACTCCTTGG CATCCATTGG CTGCTTATCC TTCAGCCACT
41401 TCATGGTGAT GTTCTGGGGG TAGTAGTTCA AGGCCCAGCA CCGTAGAGTG GTCAGTGAAG
41461 AGGTCACATG ATGTGTCACC TTCACCAAAG GAGGCACTTG ACAGGAAAGA GGAAGGATGA
41521 GGAGAGGGGA TCTGTTTACC CTTGCCAGGA AGACTGGAAC TTTCACTTCC TTCTATAGGT
41581 TGGAGGAAGG AAATACCCTT TTCAGAAAAA AACAAGCTAC AGGAGAGACA CCATTTTGTG
41641 TCCTAAGATT GGAATCTAAC ACAGTGTAC TTGGAGAGCA GTCAGATCAG CTTGTTCTCC
41701 TCACATGTAA ATATACATAT CTGTTACCCA TGTTCTTTGT TCTGATAGAT AAAATTGCCC
41761 TTTATGTGCA TTGAAAAATGA TTGAATACAG ATGGTCAGTT TCACCTGGGT CAACCTAGGA
41821 GGCATGTGTA TAAGAAGCGG ACTTGTAAGA TAGGTAGCTT CAGTGATTAT TGCTATGTTT
41881 TATGAAAGAA ACTTTTAACC TAAAGGATTC TTCTACTCTG ATAAGTGGCC TCACCTGATA
41941 TTTTGTCTTG GTATTTCATAT GATAGCTGAG ATCTCTGAAT TCTCTTTTTT TTTTTTTTTT

```

Figure 2 (Page 13 of 74)


```

42001 TTTTAAAGAT GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT
42061 CAGTGCAACT TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT
42121 GGGACTACAG GTGCGCATGA CTGTGACCAG CTAATTTTTT TATTTTTTTT GAGACGGGTT
42181 TCACCATGTT GGTCAAGGCTG GTCTCAAACCT CCTGACCTTG TGACCACCCG CCTCGGCCCTC
42241 CCAAAGTGCT GGGATTACAG GGGTGAGCCA CCGTGCCCCG CCTTGACATT TCTGAATTTT
42301 TAACAGGTAT AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT
42361 TCCCTTTGAG CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTGTG GCTGTCTCAT
42421 ACATCTCAAT TATAAGGTAG AGACTCTAGG ATTGAGAAAAG TCCCTTCCCA GAATTTGGAG
42481 AGGCACACAG CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCGCTGCC CTGCAACCTC
42541 CTCCACTCTG CCACTAGAGT ATAGGGGCAG AAGTGTGTTT CCACCATACC TTGTTGGTCC
42601 AAAACACCTC TCCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG
42661 TAGGCCCTGT TCTGCCTGGC CCGAATCTTG TGCCTTTCCC ACTCCAGCTT GGTGGGCCAG
42721 GCCCTGGGTT CTGCTGCTCT CCAATCCAGT GTGTCAGGGC AGAATTCAAG GTGGTCCTGC
42781 CCATCATACC CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTTCTTGCAT TTCACAGCCC
42841 AGGATGACCT GCAGGGTGTG GGACTCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA
42901 AGGAATAGGT CCCTATTTCC ACCATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTCC
42961 TTCCCTCTTC CCTGCTCCCA CAAGACCTCA GACTTCCAGC TGTTTCCTTC AAGATGCATG
43021 AAAAGATGAA AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCGTCTCCAC ATACCCTTGC
43081 TGTGGTTGTG ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCCTT
43141 TCAGACTCTG ACTCAGCTGC AGCCACATCT GGCTTGAAAT TCTACTGGAA ACCCATGGAG
43201 TTCGGGGCTC CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT
43261 AGCCCAAAGC TTCAAACAAG GAAAGACCAA GGTCTGTCTC TGAGGCACCC ATGAAGAGGT
43321 AGTGACAGAG GTGTGAACCT GGAGACAGAG CAACAGGCCT TAACCATGTG TAGTAGGAGG
43381 GGAGCAGGAT GTTGAGGCTC CACACACCTG CATCAACTCA TACCATCAGC TGTGTCTGGT
43441 CCTCATTTTG TGAAGGTGA GTTGCAGTCC TGTCTTTCTT CCATATGACA GTCCTGGGTG
43501 CTCTTTTCTT GTGTGCTTTT CTCTGCCACA CTGGGCTGCC ACCCCCTCAC TGCCCCCAGA
43561 TCCTATTCCA ATACTCATGA TTAGACAGAC TCCACTAAAG CTGGTGGATT CTGAAAAATG
43621 TTAAGGTGTG TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTGCTCAGGG CAAATTAGAC
43681 CCAAATCCTG AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
43741 GAGACAGAGT CTCACTCTAT CACCCAGGCT GGAGTGCAGT GGCACAATCT CAGCTCACTG
43801 CAACCTGCAC CTCCTGGGTT CAAGGGATTG TCCTACCTAA GCCTCCTGAA AACCTGGGAC
43861 TATAGGCGTG CGCCACCACA CCAGGCTAAT TTTTGTATTT TTAGTAGACA TGGGGTTTCA
43921 CCATGTTGGC CAAGCTTGTC TCAAACCTCT GACCTCAAAT GATCTACCTG CCTCAGCCAC
43981 CAAAGTGCTG GGATTACAGA AGTGAGCCAC CGTGCCAGC CTTGGTCCTG AATTCTTACA
44041 CTGAACTGCC TATGTGGCCT CACCACTTGG AAGCCTGACT GGAATCTCAA ACTTAACATG
44101 TCCAAATGCA GATCCTTGAT TTACCCCCAA CTGCTCTTTC CTCTGCCTTC ACCATCTCAG
44161 AAATGGCATT GCCAATTACC CCACTGCTCA GGCCAATAAA ATTAATAATA AGAACAAAGT
44221 CAACTTTAAC TCTTCTCTTT TTCAGGGGGT CAGGGGAGAC AGGGTCTTGC TCTGTCACCT
44281 AGGCTGAAGT ACAGTGGCAC AGTCATGGCT CACTGCAGCC TCAACTTCCT GGGCTCAAGC
44341 AATACCCTCC ACCTCAGCCT CCCGAGTAGC TAGGATCACA GGTGCATGCC ACCACACCCA
44401 GCTAATTTTT GTATTTTTTG TAGAGAAGG GTTTTGCTGT GTTGCCAGG CTGGTCTTGA
44461 ACTCCTGAGC TCAGGAATCT GCTCTCCTTG GCCTCCTCCT TGGCATGAGC TACTACACCC
44521 AGCCAATTCT TCTCTTTCTC TCACACAACA TAGAATCCTT CAGCAACTTC CTTCAGAATA
44581 TATTCAGGAG ACAATGGTTT GTCACTCCCT TTTCTGTTCC CACCCAGCCC ACTCCACTAC
44641 CTCTTGCTTG GACTGTGTAA CAGCTTCCTG GCTGGGCTCC CTGCTTTTAC TGTGCTCCC
44701 TTCATTCTGC TTTCCACATA GCAGCCAGAG CAATCTTTTA AAAGCCTGTG ACAGATCACT
44761 GTTACTCCTT GGCTAGAATT CACACCACAG CCTACAGGCG CCTGCACAAC CTTGTTTGTG
44821 GCTCCTCTTC TGAGCCCATT ACCTACTTCT TGGCCTCTAC TCCCCAGCAC TACTTGTTTA
44881 TTTTTTTTCAA CCCGAGCTTC TTAACCAGGA GTTTGTCTAC TAGGTGACAT GTGGCAAAGT
44941 TTAGAGACAT TTTTGGTTGT CAAGACTGGG GGAGTGCTCC TAGCACCTAG TGAGTAGGGA
45001 GGACAGGATA CTGCTAGACA TCCTACATGC AGATGGTAGT CCCCCTTCCC ACCCCCACGC
45061 CGCCCCCCCC CCCACACACA CACACATGAG TAGTGCTGAG AAAACCCGCT TTTTAATCCA
45121 ACTTGCCAGG CCCACTCAGT TTGCCTGGGA AATACTGCTC CCAGTCAATA TCATTCTTAT
45181 TTCTTTCATG TCTCTGCTCA AGTGTGAGCC CCAGAGTGAC TTGCCCTGAC TTCTCTGCTT

```

Figure 2 (Page 14 of 74)


```

48481 CCAACATGGT GAAACCCCGT CTTTACTAAA AATACAAAAA TTAGCCGGGC GTGATAGCAG
48541 GCAACTGTAA TCCCAGCTAC ATTAGAGGCT GAGGCAGGAG AATCGCTTGA ACCCGGGAGG
48601 CGGAGGTTGC AGTGAGCTAA GATCGTGCCA TCGCACTCCA GCATGGGAGA CAAGAGCAAG
48661 ACTTCATCTC AAAAAAAAAA AATTAGCTGG GTGTGGTGGC ATGCACCTGT AATTCCAGCT
48721 ACTCGGGAAG CTGAGACAGG AGAATCGCTT GAACCTGGGA GGCGGAGGTT GTGGTGAGCC
48781 GAGATCATGC CATTGCACTC CAGCCTGGGC AACAAGAGCG AAACCTCCGC TCAAAAATAA
48841 AATAAATAAA ATAAAATGCA AAAATTAATG GATTTTAGTA TATTTACAGA GATGTGCAAC
48901 CATTACCAAA ATTTTACATT TCTATCTCCC CAAAAAGAAA CCATGTTCCC CTAATTCAGT
48961 ACCCTTAATT CATCGCCTCC CAGATTCCCT CATTCTCCTC CTCCTCCCCT CCCAGCCCTA
49021 GACAATCTTT AATCTACTTT CTTTCTATTT GGAACATTTA GTATACATAG AGGCATATAA
49081 TATATTGCTT TGCCGTGACT GGCTTCTTTC ATTTAGCATA ATGTTTTTAT GTATGTTTTT
49141 CATGGACCAA TAATATCTAT TATAAGGACA TACCACAACA TATTTTATTT ATTCATTCAT
49201 CAGCCGATGG ACATTGGTTT GTTTCTACTT TATGGCTATT GGAATAGTG CTGTTATAAA
49261 CATTATGTA CAAGTTTTTT TGTAGACTTA TGTTTTGATT TCTTTTGGTT ATATATCTAG
49321 AAGTGGGTTT GCTGGGTCAT ATGGTAACAC TGTTTAACCT TTTGAGGAAT TGCCACATTC
49381 TTTTCCAAAG TAAGCATTTT ATCCTCCTAT CAGCAGTGTA TGAGAGTTCT GATTTCTCTC
49441 CATCTTTGCC TGGGTTTTTG AATCAGGGCC CCAGATAGAA CAAAATGTG GTTATTCAGT
49501 TGTTCCACCA TCACTTGTTG AGAAGACTCT TTTTTCATTG AAGTGTTTTG GCACCCTTAT
49561 CAAAAATCAA TCTACCATAA ATGTGAGAGT TTATTTCTGG AGTCTCAATT TTATCCCAT
49621 ATGCTATAAT CTATAATCCT ATCTTTTTTT TTTTGTGACA GAGCCTCACT CTATTGCCCA
49681 GGTTGGAGTG CAGTGGCCCA ATCCCGGCCA CTGGCTCCTC CTCCCAGGTT CAAGCAATTC
49741 TCCTGCCTCA GCCTCCCAAG CAGCTGGGAT TACAGGTACC TGCCACCATG CCTGGTTAAT
49801 TTTTGATTTT TTAGTAGAGA CGGGGTTTCA CCATGTTGGT CAGGCTGGTC TGGAACTCCT
49861 GAGCTCAGGT GATCTGCCCC CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA
49921 CCACACCCAG ACTATAATCC TATCTTTATG TCAGGACTAC ACTGCTTGA TTACTATAGC
49981 TTTTGTAGTA ATTGAATTCA AGAAGTTTCT CAACTTCAAA TTTGATCTTT TTTTGGAAGA
50041 CTATATTAGC TATTCTCAGT CTGCTGAATT TCCCTAGGAA TTTTAGGATC TATTATCAAT
50101 GTCTATTCTA TTTTGTGATA TGTTTTAATA TTTTCATAAG AAACTTTTTT CATTTAAACT
50161 TTTTTTTTTT AGAAAAATAG TGAAAATCAG AATACTGGGG GTCAGGCGCA TTTAACAGGC
50221 AGAAGAAGAA TAAAAACTTG TCATATAAAC AAAAAAGAAA TGACCAATCA CATTTGGAAG
50281 GCCATGGAGT GGTATATAGT GCCAAAGGCT GCAGAGAAAT GGTGTCAGAT ATACCTGAAA
50341 ATTGTCATT GTATTTGGCC ATTAAGAGAC TTAGAAGACT TAAGCCATAG ATTGCTCAGT
50401 GAGACCCCGA GGGCAAATGG TCTGAAGGTG AATAGATCAT TTCACCTTTA AGAGAGCAGG
50461 TAGGAAGCTA TAAATCCAAG ATTAATAAAG TGAAGTGAAT GTTAAAGAAG AAACCTAAT
50521 CTTGAGCCAC CCTATCCTTG CTCCACCTTC TGCTGCAAGC AAACAGAAAT GCTGAAATTC
50581 AACACTCACA AAGGCTGGTA AGCTGGAAAT GACAAAATTT ACTCCTGGGA AAGTCAGATT
50641 TAGAATTAGG CCATATTTGT TGGGGTTCAG ATTTTCATGT AACTTTGGGA AAGGGTTTAG
50701 CTTATAGGCA CATGCATGAA GGGAACGGT ATAGGGCTGT GTTCATAAGG TCAAGAGTTG
50761 AAGGCCAGGC ATGGAGGCTC TTGCCGTGTA TCCCAGCACT TTGGGAGGCC GAGGCAGGAG
50821 GATGGCTTGA GCCCAGGAAT TCAAGACCAG CCTGGGAAAC ATAGGGAGAT GCTGTCTTCA
50881 CAAAACAATT AAAAAATAAA ATTAGTCAGG TGTGGTGGCA CACACTTGTG GTCCCAGCCA
50941 CTCAGGAGGT TGGAAGATC ACTTAAGCCT GGGACATTGA GGCTGTAGTC AGCCATGATA
51001 GTGCTACTGC ACACCACTCT AGGTGACAGA ATGAGACCTT GTCTCCAAAA AAAGAGCTGT
51061 ATCCACATCC CAGGAAAGTG GTTGAAGATC TACTTTTCTC TGTAACCTA ATAAAGAATA
51121 GAGTGACAAA TGTGTGTTGT GGAAAGAAAT GGGGTGAGAG CTACGTAGAT GCAAAACAAT
51181 ACATCCCCAC ATACCACTTG TTAATCATCC TTTTCCACCC ACTTATGGGA TGAATTGCAT
51241 CTCCCCAAAA GATACTCTGT CCTAACCTC AGTACCTGTG AACCTGACCT TATCTGGAAT
51301 ACGGTGAGTT CACTGGTTAA GAAGAGATTA TAGTGGAATA GGGTGAGTCC TCCAACCAAT
51361 GACTGGGGTC CTCACAGACA CAGAGGGATG ATGGCCAGGT AGAGATGGAG GCAGAGATTG
51421 GAGTTATGCT GCCACAAACC AAACACAGGA AGCTGCTAGA AGTGGAACA GGCAAGAAAG
51481 AATCCTTCCC CAGAGGCTAC AGAGGGATCT TGGCCCTGAT AATACCTTGA TCTCAACTGG
51541 CCTACGTAAC TGTGAGAGAA TAAATTTCTT TTGTTCTAAG CCACCCAGTT GATAGTACTT
51601 TGTTACGGCA GCCCTAAGGA ACTTGATATA CATTTCTTTT ACTGTCATAG AAGTTTTGAA
51661 TCTTTTAAGT AGGTCTGTAC CCTTCTCTCC AGTGTCAACG CATGGAATTC CTCTCCTTGT

```

Figure 2 (Page 16 of 74)

51721 GCCTTGAAAA GTGAAAGGTG TTTGAACTGG TAATGAAAGA AATCTCAGCA TGAGGCCAGA
51781 TGCTGTACCT CACACCTGTA ATCTCAGCAC TTCGGGAGGA TGAGGCGGGC AGATCACTTG
51841 AGGTCAGGAG TTCTAGACTA CTCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAACA
51901 AAAAATGTTA TCCTAGCCGG GCATGGTGCC TGTAGTCCCA GCTACTCAGG AGGCTGAGGC
51961 AGGAGAATTG CTTGAACCCG GGAGGTGGAG GTTGCAGTGA ACTGAGATCA CGCCACTGCA
52021 CTCTAGCCTT GGTGAGAGAG CAAGACTTGG TCTTAAAAAA GAGAAAAGAA AAATGAAAT
52081 TCAGCATTAT AGAATAAAAA TGTTTCCCTT TCCCCC AAA CTTTAAAAAA GCAGAAGTCT
52141 GCATCATAAA ATGGTCTTTG CCAATGTTAT TTTTATTATA ACAAAGGAAT CTTGCAAGGC
52201 TACCAGATCT CAGCAATTGT CACTATGTTT TGTA AAAATC ACTTCCTAAA ATGCTCTGAAT
52261 TGACTGCTTG TCTCATTTAT TTGTTTCTCG TGTCACTAG CAATGGATAT GTGCTTGT
52321 AGTATAAATA TTTGTGCATT TTGTTGTTGT TAAAACAGCT TTTTGGCCT GTCTTCTTCC
52381 ACCTATGAGG TAATATAAAA CTCATGTTTA AACTTATTT TTGTAGGAGG ACAAGCTACA
52441 GACAAAACCC CTCAGACACT GAGTTAAAGA AGGAAGGGCT TTATTCAGCT GGGAGCTTTG
52501 GCAAGACTCA CATCTCCAAA AACCAGAGCTC CCTGAGTGAG CAATTCCTGT CCCTTTTAAG
52561 GGCTTGCAAC TCTAAGGGGG TCTGTGTGAG AGGGTCATGA TCGACTGAGC AAGTGGGGGT
52621 ATGTGACTGG CAGCTGCATG CACCAGTAAT CAGAACAGAA CAGGGATTTT CACAGTGT
52681 TTCCATACAA TGTCTGGAAT CTATAGATAA CATAACCGGT TAGGTCGGGG GTCAATCTTT
52741 AACCAGACCC AGGGTGCAAC ACCAGGCTGT CTGCCTGTGG ATTTTCTTTC TGCCTTTTAG
52801 CTTTACTTTT TTCTTTCTTT GGAGGCAAAA ATTGGGCATA AGACAATATG AGGGGTGGTC
52861 GCCTCACTTA TTCACCCCTT TTGAGAATCT CACTCATTAG TGGGAGTTCT CACTTTTATT
52921 CTCACTACCT ATGTCTTCTT GAAAGACAGA TTGATAATGA TTCATATAGT AACTTTGTGC
52981 TGAAGCATTT TGGTGAGCTA AGGTAGTGAT GAAGCTTTT ATCATTTGGA GAAGTACAGG
53041 TAGCAACAAA GGAAGCAGTA AGCAGGTTTC TATTAATATT ATAACCTTA TTATAAGAGT
53101 TTTAAATCTT CTTAGCACTC GGAACCATTT TTCAAACATG GCCCAGAAA CAAATCCATA
53161 CCACACCTAC ATGGGCACAT GTGCCACTTT GTTCATATTT CTAACATATG CTTCAACTAC
53221 TTGCCCTTAA TCATCTATGT GTAGACAGCA ATTAGTAAGG TTAAATTTCC TACAGACCCC
53281 TCCTTCAGTT GCTAGCAAGT AGTCGAGAGC CAATCCATTT TGATAGATAG CATTTTGCAT
53341 CTGAGTTTCT TGCCAGGCCA CAGTAGTCAG GGCTCTGCTG GTCTTATTAG TAATTTTTC
53401 TAAGACAGCT TGTAACCGTA TGATTCAGTT GAGCATGTAA ATGGGGGTCC CATATCCCCA
53461 CAAGCCGTCT TGTGCCCAAG TAGCAGGCCC ATAATATTGT ATGATTCTCT CAGGGGGCCA
53521 TTCATTATTT TTCCAATTTT CTATAGCTAT GCTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
53581 TTGCGGGAAG CATATACAGG GAAGCCCAGG AGTTTGCCTG TCTTTATGGG CAGTAGGAAG
53641 AAAGATGGTT TAATAGTGTC AATAACACAA CTACCTGCCC ACTGGTCAGG TAATTTGGCA
53701 TAAGCTGTAT GCCCACATAT CCAGTATAAT CCAGTGGGGG CTGTCCAGTC CCGGTGGGAC
53761 TCTGGGTGGG TCCACACAGT TTGCAACTTT GGAATTTTAC TAAATAGATT TTTCTTAGTG
53821 TGGTTTGAAC TCCACTAGGT GGCTGTTTTT ATAGTACTAT TATACAGTTT TTGCCAAGG
53881 CAGCTGAGTC TTCCACAGG AAGGGTGAAG TCCTTCCCCA CTTTGTCTAT ACAGTATTGT
53941 CTAATGATTG AGGCTTTTAG GACCCAGAAG TTATCAGGGT GAGTCTTTTG AGCTGGGAAT
54001 TTATCAGGAA CTGGGTCTGT AGGTACTAAT TCTCGTGCTT CCCATGGCCA TTGATCTCCC
54061 ATTACAGTTC CTCCACATAC ATACATAACA TGAAGTGACA TTGAGAGACT GGGCTACATG
54121 CTCAGCTAAT TGCAAAAACA AATTTCTTGT TTTTCCTGGA ATTTCTAGTA CTGGCACATT
54181 CAGTTCATCA TAAGAAGGTT TGAAATACTG GCTCAGGGGA GCATTTATAA ACTTCTCCTC
54241 AAACCACCAT ATTTACTCAA GGATCCAGTC CAGCCCCAAC TATTTCTAAG GTTACACGAT
54301 CCCCTTTTTT CCAGTGAGAA TCAAGGGGGT TGGTTATTAC TAGTTCTAAG GGGTTACACT
54361 GACCACTGGT ACAGGAAGGG CCACTTTTCC CTTTCTGAAG GTGGACAGGA TTCTTTTAT
54421 TTTTAAACCA AGTTGCCATA ATGACACAAG ACCAGTATCT ACATTTATTT CCACGCAGTC
54481 TTAATTCATG ACAAGCGTAC TTATTTTCTG CCATATAGCC TCTTTCCTAA TGAACAGAAC
54541 CACATCCTAT TTCTAACTTA TTAATTTTAA TGACAGCACA GGCATCAAAT TTCAAGGTGA
54601 CTTGTTTGGG CATTCTTTT TCTTCTGTTT TGGCTAACAC TTTACTCGTA TCGTTTATGA
54661 ACCCCACCA GTCTCAGTC CTCAATCTTA TTTCAAAAAC TGTGGTCGTG GGAGGCTCAG
54721 ATGGGTCATA ACACACATCA GGTGGTCAAT TTCTTGGGCT ACCTGCCTTG TATAGAATAG
54781 CATTATACAA ACAAGTTATT TTAGAGTCT TTGTACACTT ATAATAACCA TAAAATAATA
54841 AGACTGTAGC AACTTTTTGT CCTACCTCAG TGACTTGATG TATACACTGG GAACAGCCCT
54901 CAGTCTGAGG AAGGTTAGTT GAAGTCTTTA CTGTGCAAGT CCAAATTTTA AGGAAAATGA

Figure 2 (Page 17 of 74)

54961 GTCCCTTGAT GAGTTTTCTC ATGTTTCGGC CATGCATGGA CCAGTCAGCT TCCGGGTGTG
55021 ACTGGAGCAG GGCTTGTTGT CTTCTTCAGT CACTTTGCAG GCGTTGGCGA AGCTGCCACG
55081 TACAGCTCAC AGTCTACTGA TGTTCAAGGA TGGTCTTGGA AGTTGGGCCC ACTAGAAATTA
55141 ACTGAGTCCA ATACCTCTAC TCAGTCACTT TCAACTGGGC TTTCTGATAC CAGGAGCAAG
55201 GTGGCAGGTT TTAGGGTGTG GCAAATTTCA ATGGTTATGC AGGGATTTTC ACATAGCAAA
55261 CTTTGGTACT TGGTTAATCT AGCATTGTGT AGCCAATGAT GTATTTATTA AAGTCACCAC
55321 AGCATGGAGG GCCTTTAAGT TTAGGTTTTG TCCAAGAGTT AGCTTATCTG CCTCTTGTGC
55381 TAGCAGGGCT GTTGCTGCCA AGGCTCTTAA GCATGGAGGC CAACCCCTAG AAACCTCCATC
55441 TAGTTGTTTG GAGGCCCAGC CTCGGCCAGG GCCCCACAGT CTGGGTCAAA ACTCCAACCG
55501 CCATTTTTTTC TCTTTCTGAC ACATAGAGTG TAAAGGGTTT TGTCAGGTCA GGTGACCCCA
55561 GGGCTGGGGC CGACATGAGT TTTTCTTTTA ACTCATGAAA AACTCATTGC TGTGGTGTGT
55621 AATAGATGTA GTTTATCCAA TCTACATTTT TATTAAGTGT CACCCACCAA AATATGTACT
55681 CAAATCCTGC AGCTATTTGA TTTTGGGATT TAAATTGATC TGCTATTTCC TGTGGGACTC
55741 CAATTGCATC TAAATAGATG TGAGAGTTGA AAGACACATA AGGGTCTTCT CTTGCTTTAC
55801 GATGTCTTAT TTTTCTCTCC TCTGGTTGAT GAAATGCTAG GGTGAAAGGG ATAGCCAACT
55861 GGACTAAAGT ACAAGTGCCG CTCCAGTTAT TTGGCAGAGT GCCCAGTAAA GGTCCACCAC
55921 AATACCACCA CACATCCGCT TGGGGATGAA CAAAGGCTGA CTGATTGAGA AGCTCCTGAA
55981 AATTCTTAAG CTCACCTGCAT CCCTTCAGGT CTCCAAGGAA TGCTAAGTTT CCTCCCTGTC
56041 ATGAGAGACA AGAAGTGAAC TTAGTTTTTG GAGATGGAAG CTGGATGGCC CTCAGGGGTT
56101 GACCTGCAGG GTGCTGGACT TTGGGATATA GCAGAGAGAG CTGGCACCAG CTTATTACTC
56161 CAGGCTGTAG CATCCTGGAA AACAGTTACC ATGCAGCCCA TGCTGGTCA ACAGGAGGAC
56221 CACCTTAGTG GAAAGGGGAT AATCTGGCCC TCTGGCCTGC CATGTGCACA AGCATAACAA
56281 TTGGTTTTGT TTAATGTGTG GACAGAATAT TTGATCCATT CCAACTGGGC ATTTGCATCT
56341 TGGTATCCTG CTTAATTATC AAAGTTTGTT TTAAGTCTTT AACTTCTATG ACCCTCTAGT
56401 AAAATGAATG TATGATTTTA GGAAATTACA AAAACCGGTT GGGGCAGTCC ATCCTCGCTC
56461 TTTAGTGGTC CACACAACAT TCGACCAACT ATGGCATAAA AGCTCTACAT CAGGGGGCAA
56521 GACTCCTCGT TGACACTGGG GTCTTTATTT AAATCTCTCT GGATTAATG GTCTCAGTTT
56581 ACTAAGGCTC AGTCTGAGGA GAGTCAGGAG GGACAGAGGT ACTTTTCTGA AGTACAGAGA
56641 TGTCTTCGAC TTGGCAAGTC CCCACAGGGT ATAACAAGGC AAGCATTAAA TTCAATAGTT
56701 TGAGGCAAAA TTGACTTGGT TATGTTAATA ACTAGATGGT CAGAAAATAGA GTGAGGGAAG
56761 AAGAAAGAGT AATAGAATAG ATGAAGGAGT TAAATTTTTT TTAGCTTTAG TTTGGTAGGG
56821 TTTTCCCCTG GGAATATGGC CCATGACTCT GGAGGGGGTG GCACTTTCTT GACTCGGGTG
56881 TGATGAGTCC ATCCCTTTTT CACCGTATGA ACAACAGTCT CGGTGGTTAG CAGCACAAGG
56941 TAGGGTCCTT CCTAGGCTGG CTCAAGTTTT CCTTCTTTCC ACCCTTTGAT GAGAACATGA
57001 TCTTCAGGCT GGTGCTGGTT TACAGAAAAT TCTAGGGGTG GTACATGTGC TAAAAGACTT
57061 TTAGTTTTGA GGGAAAGGAA AGTGGAAGAT AAACCAAGTA TATAACTTTT AAGAAGTTGA
57121 CCTTTTGTGT TAAATGTGGG GACATCAGCA GTGGACTTTA TAGTCCTTGG TGCCCTCTTA
57181 CTGAGAAATT TCCTTTAGCA CCTATTTTTT TTAGTTTTTA GACCAAAGAA AGTCAAATGC
57241 CATTTTATAT TTGACAACGC TTCTTGATG TTTATACCAG ATAAGCTAGA TTTACCTTTT
57301 ATATTGGTGT GTTATTAATG TTAACTTAG TTTTAATAAA ACTCTGTAGA CATATTTATT
57361 TGATTTTTAA TGTCTGACCA TAAGGTAAGA TTTTATAGA CTTTTCTTTA ACCTTTTATA
57421 ATTTTTGTTA AAGAACAGGT TAGTGCTTTA AGAAAAACCC GTTGTGTTTT TATTTTAATG
57481 TTCAGTTCAC AGAAAAACTG TATGATACCC CTTAACTTTA GCCAATATGT TTAGACACAG
57541 AATTTTCTTT ACAATTAAGG TTTCAAAACT TGCTTAAACC TTCAAAACAA TTTTGTAAAC
57601 CTTTTAATGT AGGTAAAAAT CCACATTCTT ATGCATCCTC ATAATCCTTT TACCAAGGTT
57661 ATATTTTACT TTCCTTACAT ACCTTGACA TAAACTGTTT ATTCAATAGT TTTACATTTA
57721 GAAGGAGGCC TAATTACTTT TAAATTATAC AACATTTCTT GCATAAATTT ATTTTCTTAA
57781 CACACATTTT TTTTCATGACT TTCACAGACA ATTCTTCGAC ATGCCTCAAC TTTCTGACTT
57841 ATTGCAACA TCCCTTTCTT TAAACAACCT GTTAATTTAT CTCAGGACAA GGATTTTCCA
57901 TACAACATTC TTTTATATAT AAATCTGCC TCCTCTTTAT TTCCTTTTTT TTTTCCGAG
57961 GATGATAACC ATTCTTTTCC AAAGCGAAGT TCTTTTATGT CTGTGGACTA GACTGTCTAA
58021 GGCCACAAGA TTAGAAGTTA CTATAATACA TGTTACACTG TTAACTTTTA GCAAACTTTA
58081 CTTTGTGTTA AAACCTTGTA AGTTTGGGAT TTCAATTATC CTTTGCTATT AATAAGACCT
58141 TATTTAGTCC AAATTAACCT AGAATTGGTA TAGATGGCTT TTTTTTTTTT TTTAATTACC

Figure 2 (Page 18 of 74)

61441	GTGGGAGGAT	CTCTTGAACC	CAGCAGGCCG	AGACTGCAGT	GAGCAGAGAT	CATGCCACTA
61501	CACCCAGACC	TGGATGATAG	AGCAAGACCC	CCATCTCCAG	AAAAAAAAAT	AAAGAGAGAG
61561	AGAGATGCAA	TATTTAGGGT	TCAACAAGAC	TGAACCTCTG	ACTCTTTTCC	CTACCTCTCC
61621	AGCATGTTAG	ATTCTGGGTC	CTTCATCCTA	ACCCCTGTGT	CATGCCATAG	CCACCCTGTG
61681	GTACCAACTT	TGGAAGCCTG	GATCTTCATC	CCCTCATGAT	AATGAGTGTC	CCATTCAGGT
61741	CTCCATGCTC	AGCTTGCGAA	GAGTATCTGT	CTTCTCCTCA	TGGGACGGTC	ACATTCACCC
61801	AGCACTGACA	GGTTCCATTC	CCACTAGGGT	GGCACCCCTAT	ATGGTCTGAG	TCCAGGCCCTT
61861	CCTGGTCCCT	CAGTAATCTC	AGCATGGTAG	CACAATCGAA	AAGGGCTAGG	CACGGCAGCA
61921	CCATTTCCCA	CCAAGAGGTC	TGATGGCTCA	TCACATAGAC	TGAAGGAGAT	TCTGAAGAGG
61981	AGAGGTGGAA	TGAAGAATGA	ATCCTGGGCT	CTGCTCTTCC	TAGGCCTGTC	TTCTCTCTCT
62041	CCGAGATGTT	AGCTAACTCA	TGAGAGCCAG	AAACCAACTG	CAGGCTGGCC	TCAGGCACTT
62101	AGGTAGTGCT	TCAGCCTCAG	CAGTCCACAT	TCTAGGAACC	CTCATAATAT	GGGTTGAAGT
62161	ATGCATTCCC	ACAAAAATAA	AGTTGTTGAA	GTCCTAACCA	CCAGTACTGA	AATGGGAAAA
62221	GTTCCCTTGT	CCCGCTCGCA	TGGCATGTGA	TAGGAGTGTG	GCTAATTTCT	TCAGTGCCTG
62281	GCTGCTCAA	CCTCTAGGGG	AACAGTAAGA	CGGGCAGGTT	GTGGGTCTCC	AACCCCATGA
62341	CCCCACCACA	GTGCTTAGGG	TTGAATGTTT	ACAGCTCCTG	AAGCCACAGT	GGGTGTGTGT
62401	TACAGGGTGC	TCTTTTAGTT	TTGCCATTTA	TAGGCAGCTG	GTGTTAACCA	ACTCAATTAG
62461	ACCGTCTACC	TTGTCCCAAG	CACAGAAGAA	GGCTTTCTGT	ATCCCAGGTT	CTTGCCTTGG
62521	TGTACCGGAA	TAAATCAGAC	CACACCTGGG	CTTAGAGAAA	GAGTGCAAGG	TTTTATTAAAG
62581	TGGAGGTAGC	TCTCAGCAGT	TGGGCAAAGC	CAAAAGTGGG	TGGAGTGGGA	AAGTTTTCCC
62641	TTGGAGTCAG	CCACTCAGTG	GCCCAGGCTC	TCCTGCAACC	ACCCAGTGCA	AATTCGCGCT
62701	CATTTTGCCA	GGCAAACGTT	TGTTGTGTGC	TCTTCTGCCA	GTGTGCTCCC	CTGGCAGTCC
62761	AGCTATTCTG	GTCTTGTGGC	AGGCCAGGGG	AGGCTTGGGG	AAATGCAACA	TTTGGGCAGG
62821	AAAACAAAAA	TGCCTGTCCCT	CACCGTGGTC	CCTGGGCACA	GGCCTGGGGG	TGGAGCCCTA
62881	GCCGGGGACC	ACGCCCTTCC	CTTCCCCACT	TCCATATCAT	TTAAAGGGAC	CATGCCCTTC
62941	CCTTCCCAGC	ACTTTCCCCC	TCCTGTATCA	GGACCTGTGA	ATGTGGCCTT	ATTTGGAAAT
63001	AGGGTCTTTG	CAC'TTCATCA	GTTAAGATAA	GAGTGGGCTC	TAACCCAACA	TAAAGGGTGT
63061	CCTTATAAAA	AGGAGAAATG	TCATACACAG	AGACTGACAC	CTATAGAGAG	AAAATGTGGT
63121	GAGTAGACAC	AGGGAGAATC	ACCATTC AAG	TCAAGCAATG	AGTCTGGGGA	TACCAGAAGC
63181	TGGGAGAGAA	ACCTGGAACA	GATTATCCCT	CATTGCCCTT	AGAAGGAATC	AAACCTGATG
63241	ATACTTTGAT	TTCAGACTTC	CAGCTTCCAG	GACTGTGTGA	CGATAAAATAT	CTGTTGTTAA
63301	CCCAACAAGT	TTGAGGTACT	TTGTTACTGC	AGCCCCAGAA	AACTAATACA	GTAGGTACTA
63361	TGGACTGAAT	TGTGACTCCC	CGTCGCAAAA	TTCATATGTT	GAAACCCTAA	CCCCCAGTGT
63421	GATGGTACTT	GGAGCTGGGG	CGTTTGGGAA	GTCATTATAT	TTAGACAAAC	TCATCAGGAT
63481	GTGTCTCTCA	TGATGAAATT	CATGCCCTTA	TTAAAAGAGA	CAACAGGCCA	GGTGCAGTGG
63541	CTCATGCCCTG	TAATCCCAGC	ACTTTGGGAG	GCTGAGGTGG	ATGGATCACC	TGAGGTTGGG
63601	AGTTTGAGAC	CAGCCTGGCC	AACATGGTAA	AACCCCATGT	CTACTAAAAA	TACAAAAAAT
63661	GGCCAGGTGT	GGTGGTGCAC	GCTTGTACTC	CCAGCTACTT	GGGAGGCTGA	GGCAGGAGAA
63721	TCCCTTGAAC	CCAGGAGGTG	GAAGTTGCAG	TGAGATCACA	CCACTGTACT	CTAGCCTGGG
63781	TGATAGAGAC	TCCATCTCAA	AAAAAAAAAA	AAAAAAGAC	AATAGAGCCA	GGTGCTGCAG
63841	CTGATGCCCTG	TAATTCCAAC	ACTATGAGAG	GCTGAAGCAG	GAGGCTCGCT	TTAGCCCAGG
63901	AGTTCAAGAC	CAGCTTGGAC	AAAATAGTGA	GACCCCCAAC	TTCTAAAAAT	TTAAAAAATG
63961	AACTGGGTGT	GGTGGTACAC	ATCTGAGGCT	CCAGCTACTC	TGGAGGCTGA	GGTGGGAGGA
64021	TTGCTTGAGC	CCAGGAGGAG	GCTGCAGTGA	GCCATTGCTG	TCCAGCCTGG	GCTACACGAG
64081	AACCTGTCTC	GGGAAAAGGA	GAAAACAGTG	AGACCTCTTT	TTCTCTCCTC	CTTCTCTCCA
64141	CTGCCTAAGC	CCTACAAGCA	CAAAAAGGAC	ACCACATGAG	CACATAGTGA	GAATGCTGCT
64201	GCCACCAACA	AGTCAGGAAG	AGAGCGTTCA	CCTAGAAACT	GAATTGGCCA	GCACCTGGAT
64261	CTTGACTTTC	TGAGCTTCCA	GAACTGTGAG	AAAGTTATTT	TTTTTTTAGC	GACTAAGTCT
64321	ATAGTATTTT	ATTACAGCAG	CTCAAGGTAA	CTAACATAGT	AGAAGGGATG	AATTATGGAG
64381	ATCACAAGTC	CACGCCTCCA	GAAAAAGACT	TCCCTAAAAA	TTAGTCTGAG	CAAAATTCGA
64441	ATGATGAATT	ATTTTTTAAGA	ACTTTTAAGG	GATCTGACAA	GTTTGCAAGA	GCTAGGAAT
64501	GCTTTACAAC	GTGATAATAG	AATGCTCTGT	GATGACAGAA	ATCTTTCCAC	ACTGTTCAAA
64561	ACTAGCTACT	GGCCACTTGT	GACTATTGTG	CAC'TTGAAAT	GTGACTGGTG	TCTGAGGAGC
64621	AGAATGTTTA	ATTTTACTTA	ATTTTAATTC	ATTACAATAG	CTACATGTAG	CTAGGGGGCTA

Figure 2 (Page 20 of 74)

64681 CTGGATTGAA CAGCACAGCT CGAGTCTTTT AGAGGGGAGAC AGGACTCACC AAGGTGGATG
64741 CTGGTGGCCA AGCAGCAATG GCAGGTAGTA CACACACAAG AGGCAGATGA TACAACACAT
64801 CCTTCCCCAA CCTGGAGATA AGCTCACCCC ACAATCCCGC CGCTGAAATA GAGTTGATGT
64861 TACCAATGTG CATTTTTATG TCCTTTTCCA TACAGAAAGA TCATTCAACA AGTACTATGG
64921 TACTTAAAAA ACAACATTCA ATTCATTATT ATGACAAAAT TAAATTAATA GCTCTTCCTT
64981 AAACCTTTTAA ATTCAATTTA CAATGCTTAC TATTGGCATT TATTAATCTA CCAATTTTTT
65041 CCCATAGAAC CCATAGAACA AATAATCTAC CAAATTTTTA ACATTCATTT TTGGCAAGGC
65101 TTTTGCAATT TGACGAACCT TAAGAAGAAA ACTTATAAAT TGCAATTTTT AAATCTGACA
65161 TACTGGACTT TTAAAGTATC CAATTGACTA ATGAACAAAA CTGCTCCAAA TTTTTCATTT
65221 CTTAAAAATC TTAAGACAAT ACTTAATATG GCAAATCTTA ACTTCTTAAA CTTTGTAAAG
65281 ATGCTAATCA ACTTAGATTG GTATAAAGTT GAGTTAAAAA TCACAGGATA CATCATCTCA
65341 GCTATAAGTT TTCATGAGTT GAGTTTTTAC AATCACTTGA AATGCTTAGA ATAGGAAATA
65401 CGTATAAATT ATTTAACATA AAATATTGTT ACAAACCTC TGGAGTGTCA GTTCTCTGG
65461 CCAGACTTTA TGCTGCAGCA CCTTTGCCTG AGTTCTTGTC CTGCATCCAG GAAGAATTAG
65521 GTACAGAGGC AAGAGTCAAG AAGATTAGTT TTCCAATAGT TCAGCTCACC TAGTTAACTC
65581 CTGTTCAACA TCTTCAAAGT TATCAGAAAC CTGCAATTGA GGGTTATAAT CCATTCTTTG
65641 CAGAGTTTCA AAACAAGACA ACATTTGTCT ATGAATGTTA AAATGTCTTA GGGTAGTCAC
65701 AGTCAAAAAC ACAATTGACA AAGAAAATTTA GTCACCTCTG TGATTTACAA TAGCCTAACA
65761 CAATAACTCT AATTATAACT GATGACACAA ACTCAGATAT CAGAACTCTA GAAATCCCCC
65821 ATAATTTTGG AACACATATT CACAGTTTTT ACTGAAATAT GACCTGAAGA TCAAAATATCA
65881 CCTTATTTCA ACAATCCTAT ATAACATAAC GTGTCAAATG ATCCTGTTTA CCTCTCCTTT
65941 GGATACTCCA GGGGCCCCCT GTAGCATCCA AAAGTTAGGG GTTAGCAAAAG ACAATTTTGA
66001 AGCTGTAAAG GCTCAAAACA CTTAATGAAC CTCTAGTCAT ATCTGTTCTC TACTCACTAA
66061 ATGCTAGTAG CACCTCTCAG TTGTGGCTAA GCTGGGAGGA TCTCTTGAGC CTAGAAGTTT
66121 GGGGACGCAG TGAGCTATGA TTATGCCACT GCACTCCAGC CTGGGCAACA ATGCAAAATC
66181 CTGTCTCAAA AACAAAAACA AAAAACAAAT TGCCATATGCT GTGGTTATCT CACAATTAAT
66241 AAAAAGGAAA AAAAAGTAT GCAGTCTTTG TAGGTCCTTG GGGTTTGTG GAACTCAGAA
66301 AACAATACCC CAAAATAAAG ACCGCAGAAG CCAAAGTTTT TCTCTGATCT TCTCCTGCCC
66361 TCCTGTCTCT GAGTCCCAT CTCCCCGAG TCTAGCCATA GAAATGAGAA TTCCCTCTCC
66421 TCAAGTTAGG TCATAGAAAT CAAAACACCT TTTCCCCAGA GCCCAGCCAT AAAACCTAAA
66481 AATATTACTC TAACTTTCCC TCTGTTTTTC TGTGTAAAAA CTGGCCATAA AGAAATTATC
66541 TGAAGTACCT TATTTGATCA TAGATCACCA GACCGCATTC CAGAGAGGAT CCAGAAGGAA
66601 GGAATGCTGC ACAGAGAGGC CAAGAAGAAT CTAGACAGAC AGGCCTTGCT GGGTTTCCCT
66661 ACTCTGTTTA TTAGCAATCC TATTTCTACA CGGCGGCCCC TACTTTGTTG AATCTAAAAA
66721 ATAAAAATGG ACAATTTCCC CTGTACATGT TAATACACAT TAATAAATTG GATATAAATT
66781 GGATAATTTA TTAATATACA CATTAATAAA TTGGATGCAG CCGGGTGCAA TGGCTCACGC
66841 CTGTAATCCC AGCACTTTGG GAGCTGAGGC GGGCAGACCA CGAGGTCAAG ACCACCCTAG
66901 CCGAAATGGT GAAACCCCGT CTCTATTAAA AATACAAAAG TTAGCTGGGC GTGGTGGCAC
66961 ATGCCTGTAG TCCCAGCTAC TGGGGAGGCT GAGGCAGGAG AATTGCTTGA ACTCGGGAGG
67021 CGGAGGTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA GCCTGGTGAC AGAGTGAGAC
67081 TCCGTCTAAA AATAATAATA ATAATAATA TAATAATAAT AATAATAATA ATAAATTGGA
67141 TGCATTTTAT CCTATTAATC TTCCTCTTGT CGGTGGTTTT CAGCGACTCT TCAGAGGCCA
67201 AAGAGTAAAG TTTCCCTTAG CCCCTACAGG TTCTTATGTT TAATTTGTTA CTCTCATTTA
67261 AGACATAATT AAAGTGGCTT CTCCATGAAG ATTATTTCTG CATCCATTAT TTGGTAAGAT
67321 TGGCCGTTTT CTCCTTTGAT CTCTACTTCA CACTGACCCA CATAAAACAT CACTGCCTGT
67381 TTTTTTGTG TTGTTGTTG GAGACGGAGT CTTGCTCTGT TGCCCAGGCT GGAGTGCAGT
67441 GGTGTGATCT CCGCTCACTG CAAGCTCCGC CTCCCCGATT CACGCCATT TCCTGCCTCA
67501 GCCTCCTGAG CAGCTGGGAC TACAGGCACC CACCACCAAG CCCGGCTAAT TTTTGTATTT
67561 TTAGTAGATA CGGGGTTTCA CTTTGTTAAC CAGGATGGTC TCGATCTCCT GACCTCGTGA
67621 TCGGCCCCGCC TCAGCCTCCC AAAGTGCTGG GATTACAGGA GTGAGCCACT GCGCCCCGCC
67681 CCGTTTTTTT TTTTTTGGTT TTTGCATGTC TTCTCCCTTT TACTGTAAAC TATTTCCACT
67741 ACCAGCGTAG TTATCATTTT TACTGCTTAA TAATTGTTTT GGGGAAGTGA ATGCATCAAC
67801 CCACATGAAT TTCTTGCTTA TTTGACAATT TATTCTCTTT AGGAATAGTA TTAACCTTA
67861 AGGTCTTGGG AGCCAGTCTC TGTACTTGGC TGCTCCAGGG TCCTACTTCA GTTTCCCAGC

Figure 2 (Page 21 of 74)

```

67921 TTCTCAGTAC TGTCACGTGC AATTGTGGGT AATAATTATT TTTGTCCACC AAAAGACTCT
67981 GTATGTGAAT GAGTTTTGAA ATCTGCTGAG TAATACAGTG TCAACCCAGT TAATGATTTG
68041 CCGGGCGGCT TGATCAGGGG CTGTCCAACCT ACCGGCATT TGTATTGGAG CGTCATCTAG
68101 TGTCTGAAAG CACAAACAAC ATCCTACATT GTAAATGCCT TTGGCTACAG AGATTGAAAC
68161 CAAAGCAAAC CTATGTTTTG AATTGTTATT CTTCAGCAGT TCTGCTAGCC TTGAAAAATC
68221 TAAAAGTTAA AAAAAAGCTT TATATTTTCA TTTCTGCCTA AACTCTTTAA AATTGCTAGT
68281 TGACAATTAG ATATTTTCAA TTTAATGAAA TTTTTTTTTA GTTCACAGAT TAATACACAA
68341 TGGGGGAGGG TTCTTATTCT GTTGGACTTT TACATAACCT CCACTTTAGT GCAGTCTGCT
68401 TTATGGGGTC TTGTTTGAGG TGTGTGTGTG TTTAAGGGAA TGTGGTTTAC AATCAAAATA
68461 TTGGGTTGCT CTTAGGCACA TTGTAAAGTC ACACACCTGT ATTCTTATTG ATACATAATG
68521 ATTAATAACA TTATTATTAC AGCCTGATCA CCATCATTAT TGATATATCT AAATAATGAA
68581 TTTTATAATT TTGCTTCCTG TCAGGCAAGA GCCAATTTCA GTGCTACCAT GTTTGTATAG
68641 CAGTATTTAT GTCTGTCATC CTCAGTCATT TTACTTCACT TGTCTTTAGC CAAACGGCCG
68701 AGAAGCGATG GTCATTTTAC TTCAAAAATG AAAAGAATTA ATATTTTAC GTTTCCCTTA
68761 AAGACCCTAT GTTTAACCTC CACTCCCGGG TAAAATGGTC TAGTCCCTCC TTTTCATATC
68821 ATCTCTGATA TCTTTTGCAC AGCCACTATT ACCTACCGTT TTCTAGATCC CTATTCTTCA
68881 AACACCACCA TGAAGGTAGA GCCTGTCTGA ATTATTTTCT TGTCCCGTGA ACTCAGTACA
68941 TTGTTAGGCT TCTTGAAGAT GTTGATCAGT TGTTTGTGGA GTGAATGAAT CAGCTAGCAT
69001 GATTTTTCTA GACCACTGAG ACAAGTGTCT AAGACACTTG TTCTTCCCA TGTCTTGCC
69061 TGCCTGTGCA ATCCATGCAG TCTCATGGCT TCCCAGTGCC TCAGAATTAT CCCCTGTCAA
69121 ACAGGCATTA TAATTTCTGT CCACTGAAAA GGACAAAAAA CTAAGTGAT AGCTAGAAGT
69181 TAAAAATTAC CGGCCAGGTA CTGTGGCTCA CTCCTGTTAT TCCAACATTT TGGGAGGCTG
69241 AAGCGGGCAG ATCACCTGAG GTCAGGAATT CGATACCAGG CTGGCTAACA TGGCGACCCC
69301 GTCTCTATCA AAAATGTAAA AGTTAGCCAG GTGTGGTGGC TCGCACCTGT GGCCCCAGCT
69361 ACTCAGGAGG CTGAGGCAGG AGGATCGTTT GAGCCCTGGA GGTGAGGCT GCAGAAAAAT
69421 AGGAATATAC TCTCTTTCAA GAGTTCGTGG TTTTGA CTGC CACCTAGCGT ACATCAGAAA
69481 AACC GCATGA CATAGGAAAT GCCTGTGACA GAGGGGTAAG GTGAGAGAGG TTGATGAAGA
69541 ATGTATTGAA GGAGTGAAAA CGCTTCCATC CCTCTACTTA CTAAATATAT TAGTTAAGTA
69601 GTTGGGGCAT ATTTTAATTC ATGCATTTTG TAGATAGAAA AACAAAAAGTT TTATTCTGTT
69661 TGATTTAGTT GATACTTTAA TATGTGTGTG TTTAGGATGC ATGATTTATA ATCAGTCTGC
69721 AGCACTTCTT GGAGAAGTCT GAATTCCTCAT TCTCCATTTT CTTATTGGCA ACGTGAGAAT
69781 GATTACAATG GTGGTTGTCT CATAGAATGC AGGGAGTCAG AATGAAAAATA GTCCATATAA
69841 TGCCTGGTGC AGAGGAAGGG TTCAGTTAAC TGTCTGTATT AATATTACTG ATAACAGTCA
69901 TGACAAACAA AAGCTTAAACA ACAACACCAC CAACAACAGT TGCAGAATTG AGCCACCAAT
69961 TTGCACACAA GATTGTAGGT AGGATGTTTT AGAAAAGTTA TTATTTAATA TATGTATATA
70021 TTTTGTACT TAAAAATATG CAGAGGTTGT TCTAAGAACT ATTTAAATGT TAACTCCTTA
70081 ATCCTCATAA TGACCCATGA AACAGGTAGG CTTATTATTG TCTCTTTACA TGTGAGAACA
70141 CTGAGACACG AAAAGGTTTA TTAAC TCACC CAAAGTCACA CAGCTGGTAA AACGGCAAAA
70201 TTGAATTTGA ACTCAGACAT TCCAGGTTCC AAGACAGTCT AATTATTCTT TTGACTAATA
70261 TACTAAGCTG CCTCTGTATT TTTCTTGAT TACTTTGTAA AAGTATGAGG AAAATATAAG
70321 TGCTTCAAGT AACCATGAAA AATATAAACA ATCTATGTAT CAACTGAAGC ATAATTACAA
70381 ATCCTTTGAT AAGCAAACAT AATAAAAAAT TGATATCAAT CAAAAC TTTC ATGTAATGTA
70441 AGCAGGTTGA GATGAATTCT ATAGTAAAAA AGTGCAGAGT GCTGGAATAC CATGCTCCTA
70501 ATATATTGGC TAGGCACACC TGCCTGCTAT CAAAGGTATG CACACACCTT GGATACAGAA
70561 AGTTGGGACT GGGTAGTTAT GTGAGTGTCA TCAGAATTCT TTCCCACTTG GGAAGAATT
70621 GTCCATCATA AGCTTGGATG ATGGACAAGG AGTGAGCTCC CAGAACAGTG ATGTGGGGAT
70681 ACATCCTCAC ATCACAGTGA GAATGAGTGT TCTAGACTGT TTACACACCT ACCACTCCTA
70741 AATGCACACA TATAATTGCT TGCACACACA CACATACACA CTCATCTCTT CTCTGGTGGT
70801 CCAGCTCTAT CTCTTATCAT TAGGCTTCTT GGGGCTAGTA CCTAGGGCCT GTATCCTTTC
70861 AGAGGCAGCT AAGGGAAGCA CACATAATTA GAAAGAATGA ACCAGCTTGT TGGATTTGGT
70921 CTCTTCGCAT CCAGCCCTCC AAGTTAAGGA GAGTACCATC TTTCTTAGGG TCACCAAAGG
70981 AAAAAAAAAA AAAAGAAAGA AACAGAAAGGA TATCATACAG CAAGGATCTA ATGCAATAT
71041 GCCTCAAATG AGAGGCTACT GTGTGCTGAT CCCAATCCCA GGAAGTGTAT GCACATTATC
71101 TAATTTAATC CTCACTGTAT TTCTGGGAGT ATTATTCCCA TTTTACAGAG AAGGAACTTG

```

Figure 2 (Page 22 of 74)

71161 GCAGGGTAAC CAAGCTCATG AATGGAGAAA CTGGGATTAA ATATAAAGCT TCCTTGCTCC
71221 AGAACTGCTG TCTTTCTGCT CTTCCACACT ACCAGCTCAG CTGTGCTCTC TACATGCAGG
71281 CAGTTTACAG AGTTTCAGAT TAGCCTGGGA CTTCCAGGGT TTTGAATGGG TTAGGGAATG
71341 GGGAACTTTT GGGTTTACTT TCCATTTTTT CTTTCATACAT ATGTAATATA TAACATAAAT
71401 CTATGGTATA TATGATAAAT ATATGGCTAC ATATGAACTA TATAATCACA TATATGCATT
71461 ATAAATAAAT ATTAATTTTA TAATATTTTA AAGGTTATCA AATAAATATT AATATAAATA
71521 ATTAAATAAT TAATACTCAG CTTTGTTTTT CAAAGTGATA AATGCCCTATA TTTAGCAAAA
71581 TATTTTTTGG AGGCCTGATA GTTTTTTAGGA GTGTAAAGAA GTCCCTGATAT CTAAATGTTT
71641 AAGAACCCTT ATTTTAGGCT GTTGCTCTCT GTCTTATTTT CCCAGCTAGA CTGGTAAATA
71701 CTTGAAGGCA AACGTTTAGC CAGCACATTA ACATTTTATG TTTTATTTCT TTTGTGCTCT
71761 CAGTGGCTGT GTCTTTTCTA TCGATTTCTC AACTGTATAT ATGGTTATAT TTGTCTGTAT
71821 CTGTCCCACC AGGTATAAGT TCTTGAGAGG ACACACTGCT AGGCTGATCT TAGTTTTTAT
71881 TATTTCTCCT GGTGTCCTGT GCTTAACAAG TGCTCATTAAG GTGTGTAAAA ACACAGCACA
71941 GTAAAAAACT AGACATTAAA AAATAATGTC AACCAATCTA TTGAAATTTG CATTTCCATG
72001 TTTCTTCCAA TATAGTCATT GTGTCAGGTT ATGTACTTAT TCTGATGAAG ACTATTGCCT
72061 AATATACGTT TGCATCTTGT GCTTTATAAC TGCCTTCATA TAGACACAGA TTGAGAAGGT
72121 GTAAAAATGT GCATATCCTC ACAATTGACA AATTCCTTAT CTTTGAGGGT AGGTTTGACT
72181 TTCTGAAATG CTTTGACATC ATTTGAAAGA AGCTTGAAGA ATAAGATAGC TGTAAATGAC
72241 CCAGTTTCCT ATGTCACCTA TACAATTATA ATGGCAATTT CAAAATGTTA GGTAAATATA
72301 TTTTGCAATA TATTGTTTCT TTTGTAATAC TCTCTATGTA TTTATTTTATA TTTTAAATTT
72361 TTATATTTAT GTATTTATTT TTCTGGACAG AGTCTTGCTC GTTGCCCGAG GTTAGAGTGA
72421 AGTGTGTGTA TCATAGCTCT CTGCAACTTC AAACCTGCTG GCAAAAGTGA TCCTCCTGCC
72481 TCAGCCTCAT GAGTAGAGTA GCGGGAAC TA CAGGCGCATG CCACTGCACC CAGCTAATCA
72541 CTATTTATTA TGCTCCTACT GTGTGCTTTA GTATATTTTC TGTGTGTTTC TGCAACCCAT
72601 TTTGAGGGCG TGTGAGGAA TACAGATTGA GTAACTTTGG TCTCAGCCCT TGAGGTGAGG
72661 AAATATTTAG CCTCAGGTTT AATCTAATGT TTGGCCATTT GCCTTCAAAG ATTGAAATAT
72721 GAGCAAACT GTGGCTCTGG GTTATATGTT AAAAAAAGT TTATGGGGCT GAAGCCAGGC
72781 AACAGACAAG AGCCCCTACA ATCTTATTTA GGCTGAAAAT ATCCTGGAGT CCCTGTATTG
72841 TTGGTCTCAA GCAGATAGCA ACACCTAAC TTTACTCTTG AGGCAGGCAC TGCCAGTGGG
72901 GTGGCTGTTA TTATTAGCTT CATTAATTTG TGAGTCAGGA AAAACAGCT TTAATCATTT
72961 CAAAGTTCTG GCCTATACAG GATTTAGTAA TATTAGGTTA GCTACATCCA AAAGATGACA
73021 GAACCCTACT CTAAGGCTGG GCTTGGTGGT TCACACCTAT AATCTCAAAA CTTTGGGAGG
73081 CTGAGGCAGG AGGATCACTT GGTGCCAAGA GTTTGAGACC AGCCTGAGCA ACATAGTGAG
73141 ACCCCTGTCT CTATCAAAAA CAAAGAAGCT TAATTGGCAT AGTAGAAGGA AAAAGTGAAA
73201 GAAAAACCAG CTGTCACCC TATTCCCTTAC ACCTGTCTTA ACACTCCTC TCACTATCCT
73261 TTGAATATAT CTTGGCTGTT TGAGTCTCTC TCTAGCCCCA TTACTGCTGT TTGGACTTGA
73321 CATTTTGCTC TGCATTTTTA ACTTTTCTAC CAGGGTTTCC AGACCCTGAA GAGTGTGGCA
73381 TGAAACAAAA CTAGTCAACC TATAATATTT ATGATGTGTG TGTAAATAAA AGAATACACA
73441 ATATATTGCA TTACAATATT TTAACGTGTG CCTCAATTTG TTTGTGGCTT TCTTGAGGAC
73501 ATCAGTTTTG GGTGGGACGA CCACATCCTT AATCTGAACT TTCCCTTGGA GGTCAATCTT
73561 TTTTTTTTGA AATAGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCACTGG CGCAATCTCA
73621 GCTCACTGCA ACGTCCGCCT CCTGGGTTCA AGTGATTCTC CTGCCTCAGC CTTCCAAGTA
73681 GCTGGGATTA CAGATGCACG CCACCATGCC GAGCTAATTT TTGTATTTT AGAAGAGACG
73741 GAATTTTACC ATGTTGGTCA GGCTGGTCTT AAACCTCTGA CCTCATGATC TGCCACCTC
73801 AGCCTCCTAA AGTGTGCGGA TTACAGGCGT GAGCCACCCC GCCCGGCCAG AGGTCATTTCT
73861 AATAGACTTT TTTTGTGTTG TTGCTCACAG GCTTGTTCAT TCTTATTTCA AAATTTGAGA
73921 AATACAGTTT CCATGGAACA CCAACCAGAT ATCAGGTTGC TATGGAGTTG ATAGTCAAAA
73981 GCTTTGTATC TTCCAGTTTT TCAGAAATGGC TTCTAAAGGT TCTGATTGAG AGCTCTTAGG
74041 CGAAATTGAA CAACCAAGTG TCAAAGTACA ACATTCAGGA AGTTAAAAAC ATGACTGACA
74101 TATATGTACT ATATATAGTG AGCTTGTGTA TGTGTCAATG AATGATTTAA TTCATTAATG
74161 AAGGAGGAAG CAGAATCACA ATTAGGTCAA AGGAAGATAC GGGAGAATAA AATATGTATT
74221 TGGTCAGGGA AAGGATGTAT ACTGGAAGAG GAAGGGAAAA TCAGATATAA AGTTGTTTAA
74281 TGACTTATTA GGCAATACAA TAATAACTTT TAGGGTCATT TTTTCTATAT TAAGAATTCA
74341 TTTCCATCTC TATGACAAAA TCCTTATTAA TTTATTAAAC TTCTACAAGT GAATGTTTAC

Figure 2 (Page 23 of 74)

```

74401 TTTTAGATAG TCTGGACCCA ATAAAATGTA AACATTAAGT CAGAGTTACT TTCACGTAGG
74461 ACAGTGTTGT CCAATAAGGT ACCACTAGCT ACACGTGATC ATTGACCATT TGGACTATAG
74521 CTAGACTGAT TTAAAATGTT CTAAAAGTGT AAAATACACA CCAGGTTCTG AAGATTTATC
74581 ATTTAAAAAA GAATGTCAAC TGTCTTTTTT TTTAGCTTAT TTATTATATG TTGAAGTGAT
74641 AATAGTTTAT ATATATTAAG TTAAATAAAA TATCTTAAAA TTAATTTTAC TTGTTTCTTT
74701 TCATTCTTTC AATGTGACCA CTAGAAATCT GGAAAGTATT TATGTGATTC ACATTCTATT
74761 TTAAGTCTTA GTATTGCCTT ACATCATCAG GTACCCCATTA AGTAGGCTTT TTAGATAATT
74821 CTCTAATATA GCTTGAAGG ATATGGAGAA ATATTTTTGC GTTGCTTTTA AGTTTTGCAT
74881 AACTTTTTTCA ACACACTTTA TAAAGGATCT AGAAAAGGGT TGGTTACATG TTTCTCTGTC
74941 TTCTGGCCTC CACCATGTTG CCAGGAGGTT GGGGACAAGA TTCTGGGTGG CTGGATGTCC
75001 TAATGGCTTG AGGTCTGGAC TTGAGATTTG CATATAAAGA GATGTGATTA GATTGAGTCG
75061 ACTAGAAAAA TCATATTAGA GAACCTGAATC ACAGCGATTA AATTTACATG TCGATTATTA
75121 AACCAGGACA CCAATTTTATA GTGAAAGAAG GTCCAGTTAC CTGGTAATCA AGACGTTTCA
75181 TAGCTATTTT CATGATGGAT ATACTTAGCT GAGTTTTTAAA TGAGAAGGGG GTTCATTGCA
75241 CATAGAATAA GATCTAAGTG AAATGTTTAT TTATTTTTTTT TTTTTTTTGA CATGGAGTCT
75301 TGCTCTGTTG CCCAGGCTGG AGTGCAATGA GGCAATCTCG GCTTCTGGAG TGCAATGAGG
75361 CAATCTCGGC TTCTGGAGTG CAACGAGGCA ATCTCGGCTC ACTGCAACCT CCACCTCCCG
75421 GGTTCAAATG ATTCTCCTGC CTCAGTTTCC TGAGTAGCTG GGATTAGAGT TGCTTGCAC
75481 CACGCCAGGC TAATTTTTTGT ATTTTTTTTTA GTAGAGATGG GGTTTCACCA TGCTGGCCAG
75541 GCTGGTCTCG AACTCCTGAC CTCAGGCGAT CTGCCCCGCT CAGCCTCCCA AAGTGCTAGG
75601 ATTACAGGCG TGAGCCACCA AGCCTGGCCT AAGTGACATG TTCTTATATT GTTCTTTTCT
75661 TTCTTTTTTTT TTCGACTGAG TCTCACCCCTG TTGCACAGGC TGGAGTGACG TGGCGTCATT
75721 TCGGCTCATT GCAACCTCTG CTTCCCGGGT TCAAGCGATT CCCTTGCCCTC AGCCTCCTGA
75781 GTGCCACCAC CCCAGCTAA TTTTGTACT TTTAGTAGAG ATGGTGTTC ACCATGTCCG
75841 CTAGGCTGAT CTCAAATCC TGGCCCTCAG TGATCCGCCC CCGAGTCTCC CAAAGTGCTA
75901 GGATTACAGG CGTGGGCCAC GGGGCCCAGC CTTATATTAT TTCTTTTACT ACAATATATT
75961 AGTATGATGC AGGTGCTTCA ATTTGTTTATA CACTTTCCAT AATTTTGAT TATTCTTATA
76021 CCCTGTCACT CTGAGGAATA GCCGGTCTAA GTGTTTTTCC ACCACTGCTA ATTCATCCAT
76081 CACTAATCTC ATTAGACTGT TAATTTCCAG AGGACATAAG CACACAAGCA GACAATGTTT
76141 ACAAATGTTG GACAAATGTT ATTTAATAAA ACAATGGGGT CACCCTTAGT CTAAAAGATG
76201 TTTCACTTTT CATTTGTCAT TGAACCTTA TTTGTAGGTT CCCTTTTGAC TTTCCACAA
76261 TCTAAGGCTG TTCTCTTTAA CACATATTTT CATGAAAACA TATATTTGAG CAGAAATTGT
76321 TGGGGAGTTG TAATATTACC TTTGTCCCTA AATATGAATC TATAATTATA TCAAAATATAT
76381 GGGCAGACAA TTTACTTTGC CTTTAATCTC AAGAAAAAAA TAGCAATTAC TTGGGGTCGG
76441 AGAGTAAAT AAGAAGTAGT GAACCTTAAA GTAGCAAAC TTAGAACAGA ATAGTTTCAG
76501 AGGGGATGAG AAGAGGTGAT TTTTCAGCTC ATCAACAACA GATCTTATAA TAAATTACAT
76561 GTTCTGGTAC TTTTCTTGTC TTTCTGTGTT AAATTTTGCT ATTTAAAAAA ATAAATTTCA
76621 AATACATTTG TCATCTTAAA AGTCAAGAGT GTGTTTTATT AAAGTCAGTT GCTTTATTTG
76681 CAACTCAAAA GATATATTTG AGTTCCCAAC TGGAGATTGT CCTATATGGT AACTTGCGTA
76741 AGGTATGGTT ACTGAAAGTA ACCTACAATT TTCATGGGCT GAAATTCATT TCTATATTGC
76801 AGCGTACAAA AATAAATAAA TAAAAAATGC TTGTTTTCTT TGAAACATA TTATCTCAGT
76861 GCCTCTAACT GCCAAATCTA TTGGCTTTTT TGCAGGCTTA AGGGCTCTCC CTTGTTCTCT
76921 TATGATCTCT ATCTTGAGGG CCAGACCTCC TGCCTTACAC AACTCAGAGG GGGACCTCAG
76981 AGCTCTTTAA AAAGAGCCCA ATTTCTCGCC TGTAGAGAAG TGAAAAGGAT GCGCCACCCC
77041 CATCTATGAA AAGAGGGATT TGATAGTTTC AATGTCTTCA AATCAAAGAT TTAAGTCTGT
77101 AGCCCCCCCAC CACCCCGGAC CCTAGCAAGG CTCATGAACC CCTCCCATC CCGCCCTAAT
77161 TGCTTTGGAC TGGCCGTGGA ATCCTTGTC CAGTCCACAG TTCTGTGCG ACTGCACGAA
77221 GAATTCACAG AGGACCTGTG TTAATTTCCCT TGTGAAGAAA CAGAATTATC ATGAAAATTT
77281 AGGTGGAAAC CATTTGCTTT TTTCTTCAA AAATAAGGGA AGCATGTGCC CAACCACCCC
77341 TGGGAAAAAG AACCTTCAGG GGCAAAGGAG CGAACAGGTA ATTTATAAGA AAAACAGAAA
77401 GTGGTCTCTG ACTGCCCCAG ACTTCTTCG GAGTTGGGGG AATTGGGGAC GCCTGGACGC
77461 GTTGTTTTTG CGTTTGTTGA AAAAATAAAT GAAGAGCATG AAGCCCGAGG CTTCTGAGAT
77521 CCTTTCCTGA CCAACCCCAA GTGATTTGGT GCGGGGAATT TTAATATTTT TCCCTTTTGT
77581 TGAGGTGGAA CAAACACAAC TTGGGAGCAG CGCAGCGGCT CAGAGCCTGC CAGCCAGGCG

```

Figure 2 (Page 24 of 74)

80881	AGATCTCTTC	CACCTCCTCC	TGTTTCTCCA	TCTCAACATC	AAACAATTAA	AAAAAAAAAA
80941	AAAGGCTGGG	CGCGGTGGCT	CACGCCATA	ATCCCAGCTC	TTTGGGAGGC	CTAGGCGGGT
81001	GGATCACGAG	GTCAGGAGTT	CAAGACCAGC	CTCGCCAAGA	TGGTGAATC	CCGTCTCTAC
81061	TAAAAGTATA	AAAATTAGCC	AACCATGGTG	GCAGGCGCCT	GTAATCCCGG	CTACTCGGGA
81121	GGCTGAGGCA	GAGAATTGCT	TGAACCCGGG	AGGCGGAGGT	TGCAGTGAGG	CGAGACCTTG
81181	CACTCCAGCC	TGGGTGACAC	AGCGAGACTC	CGTCATAAAA	AAAAAAGCCG	GAAGCAGTGG
81241	CTCACGCCTG	TAATTCCAGC	ACTTTGGGAG	GCTGAGTCAG	GCAGATTACC	TGAGGTCAGG
81301	AGTTCAGGAC	CAGCCTGGCC	ATGAAAATAC	AGCCTGGCCA	TGAAAACACA	CAATAAATTA
81361	GCTGGGCGTG	GTGTCACACA	CCTGTAATCC	TAGCTACTCG	GGAGGCTGAG	ACAGGAGAAAT
81421	CACTTGAACC	CAGGAGGCAG	AGGTTGCAGT	GAGTTAAGAT	GACGCCACTG	CAGTCCATCT
81481	GGGCGACAGA	GCCAGACTCT	CTCTCAAAAA	ACTAAATAAA	TAAAAATAAA	GTTATGGTAC
81541	ATTGAACCTC	TGTGTTCCCT	TCTCCCTTAG	ATACTTTCAT	GGCTACCCAT	TTAATTGATG
81601	TTCTTATCAT	CTCCAAGAGT	TAGTCAGGAG	AGGAATCAAC	CCAAGCAAAA	ATAGCTGATT
81661	TTCTAATTTT	CCTTCAATGC	CCTTTGGGGT	CTTAATCCAT	TTGATTTATG	TACTTTCAAT
81721	TAATCCTAAC	CTCGAATGTC	TTCTGCAAAAC	ATGTTTCCAC	AGATGAAACT	CGTCAAAATGA
81781	AACACATTCC	TTTAATTTAT	AGAGTTAAAA	ATTAGAAAAA	TTTTCAATTC	TATTTGGCCT
81841	TTAGATTGAG	TCTTGTCATAT	GTTTTCTCAA	TTTTGTTCAT	GCTCTTTAGT	TTTGTTTTAT
81901	TCCATCACAA	TTGTTTCACAT	AGCTTACTGG	CCTTAGGTCTA	ATGAACCATT	CATTTGGAAA
81961	TTAAAATTGG	CCATTTTAAG	ATGAAAAAGA	TTCTTGCCCTC	AATTTTACTT	AGTTTTTGAA
82021	ACTGTCAATG	AGGACACATG	TTTTTCTGTA	CTCTTAGATT	CACTAAGTAG	TGTCTTGCAA
82081	ATTTAACTGA	CAAAGGACAG	ATTAACATGC	GAAAAAAAAA	GCATGCAATT	TTATTAGTAT
82141	ATTACATGCA	CAGAGTTCCC	AAAGAAAAAA	AAATTGAAAC	CTTAAAAACG	CGGTTAGACT
82201	CACGACCTTA	TACACCATTG	CAACAAAGGA	AAGGGAGTTT	GCACTTCATG	GGATGACGAA
82261	TTTGGAATG	TGACAAGGAA	ATAAATACAT	GGGCAATAAA	AACCATGGAA	GATAAAATGA
82321	AAGATAGAAA	TAATTGTAGT	AAGGTTTGTT	TTTGCAAGAT	CATCTCAGTG	CCAACCTTCC
82381	ATATCTAGTG	ATAAGAATTG	CTCTCTTTTT	CCTGGTATAG	CAGTTGGGGA	CAGTTTACAT
82441	AGGGAAATTT	CTGTACACCT	CACAAAGGGA	AATTTGGGTA	AAGAGAAGAC	AGAGACCTCT
82501	TCCTACACCT	GTTGATTTTC	AATTGCCTTC	AGCTGAAAAAT	AACCTTTATG	CCAAAGTAGA
82561	ATAATTTGGG	GGTGACATCC	TGATATCTTT	CAAACTTAT	ATTTAATTTT	ACATTAGTAA
82621	TTATATCATT	TTTGATTTTT	AAATTAGTTT	TATAAAATAA	TTTTGAAAAA	CGGTAATAAT
82681	ATTCAAATAA	TTCCAGAAAC	ACTGCTGATA	AGCCAAAAAC	ATCAATGAAT	ATTGCATAAA
82741	CAACTGATAA	TTCAACCATG	AAAATTTATG	ACATTGTTCT	TGTGTGATAA	AACTATGAGT
82801	AACATAAAAA	CTAGAGGCTA	CTTGTAATGC	ATTATTCCAA	ACTTTCTGTT	TTTTATTATAT
82861	TTATTTATTT	ATTTTGAGAC	ATAGTCTCTC	TCTGTACACC	AGGTTGGAGT	GCAATGGCGT
82921	GATCTTGGTT	CAGTGCAGCC	TCCACTTCCC	CGGTTCAAGC	AATTCCTCTG	CCTCAGCCTC
82981	CTGAGTAAC	GGGATTACAG	GCACCTGACA	CCAAACCCGG	CTAATTTTTT	TGTATTTTTA
83041	GTAGAGACGG	GGTTTCGCCA	TGTTTGCCAG	GCTAGTCTCG	AACCTCCTGAC	CTCAGTGATC
83101	CACCTACCTC	GGCCTCCCAA	AGTGCTAGGA	TTACAGGCGT	GAGCCACCAT	GCCCGGCGCA
83161	TTATTCCAAA	CTTTCATACA	CAGTGCTATC	ATGGCTACAA	ATTGAAGTAT	CATATTATAC
83221	ACTCCTAGGC	AAAGCTCTGG	ATATTTTGGC	TATATAAGCC	TGAGGGAAAT	GTAATAAGGA
83281	CATTGTGGTT	GAAATTGATA	CCAGAGATGA	ACAGGCCAG	TGCAAGACAG	AATTACATCA
83341	CTAAAGGATA	TCAGAAGAGA	ATAGGGATTT	AGGGTACAGT	GGCAACAACA	GTTTGGGAA
83401	CTAGCATTTT	TTGAGCACTT	ATTTACAATA	TGCCAAGCAC	TGTTGCTGAT	TACTCTATAT
83461	TTATTTTCAA	ACACATTCTT	GTCACAGCAC	TTTGAAGTAA	GTGCCATTGT	CATTCCCACT
83521	TCAGGGTGAA	GGACTAAAGC	TTGGTGTCAT	TAAGGATGTA	GCTAGTTAGC	TGTGTGTGTG
83581	TGTGTGTGTG	TGTGTGCATT	TTTTTTTAAA	TTTAAAGTCA	ATAAATTTTT	ATTTGAAGAA
83641	TTTCACATCA	AGGTAAACTT	TGTTCCCTCTA	AAGAGCTGGA	GTCAAAATGT	ATCTTCAAAA
83701	GATTCATCTT	CAAGTTAGCC	CTTCTTAATA	GAACTGATGC	TTAATCCACA	GTTGTCAGCC
83761	CACAGTTCTT	TTATTTTGAC	TTTTTTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TCTCACTGTC
83821	ACCCAGGCTG	CTGGGCAGTG	GCGTGATCTC	GGCTCGCTGC	AACCTCTGCC	TCCCGGGTTC
83881	AAGTGATTCT	CCTGCCTCAG	CCTCCTTAGT	AGCTGGGACC	ACAGGCGCAT	GCCATCGTGC
83941	TCGGCTAATT	TTTGTATTTT	TATTAGAGAC	AGGGTTTCAC	TATGTTGGCC	AGGCTGATCT
84001	CAAACCTCTG	ACCTCATGAT	CCGCCTGCCT	TGGCCTCTCA	AAGTGCTGGG	ATTACAGGTG
84061	TGAGCCACTG	CACCCGGCCT	TATTTTGCCCT	TCTTTAATCT	CCATTTGAAC	ATGGACATAC

Figure 2 (Page 26 of 74)

84121	TGATGAAAAC	TACAACATTC	TTCACCAAAA	ATCTTTGGGA	TTTAATTTCT	TCAACCACTT
84181	TACTTTGGGG	TCATTTTAAG	ATTAGGTGTA	TCTGCCTGGT	TCTCAATTTG	ACACCCTTTC
84241	TCTCTAAACA	TGAATGAGTT	CCAATCATAT	TTATTCCTAA	GCTATCACAC	TCAAAATATAC
84301	TACAGATCTG	TGGAATATGC	CAAAAGTTAA	GGTGAAAAAT	TAAATTATTA	GGTATTTTCAT
84361	AGTTTTGCTA	GTTTTTGATC	TGTGAGTGAA	TATAACTATC	CTCTATGTCC	TGGCACTGTT
84421	CCTCAGAAAC	ATAGGGTCCA	CATATGTAAT	TTTAAATTTT	TTAATAGGCA	CATTTTAAAA
84481	AGTGGAAAAA	GAAATCTATT	TTAATGATTT	GAATCCAGTG	TAACCAAAAA	TTGTTTCAAC
84541	AAGGTATCTA	ATATTAAAAT	ATTGAGCTTT	TACTTTGTTA	TTTTACTAGG	TCTTTGAAAT
84601	CTGGTGTGTA	TTTTACACTT	AAAGCACATC	ACAGTTTGGA	GTAGCCACAT	TTCCAATGCT
84661	TAATACTCAC	ATATGGTTAG	TGGCAACTAT	CTTGGACAGG	ACAGCTTTTA	TACTCTGGGA
84721	AGACACAAGC	AAATACTTGC	TCTGCAGCAG	AATCCAGATG	TTTTCCAAGA	AAACACTTTT
84781	TCTGACCTGT	TCGTGAAACC	CAGGTAGTGT	CTCTAATACT	TTATATTTTA	TTGGTTTGTG
84841	CTATTGTAAC	CACCCAACGG	GCTCTCCTTG	TCCACTTCCT	AGACAGAGCT	GATTTATCAA
84901	GACAGGGGAA	TTGCAATAAG	GAGCCAGCGC	TACAGGAGAC	TAGAGTTTTA	TTATTACTCA
84961	AATCAGTCTC	CTTGAGAATT	TGGGGACCAA	AGTTTTTAAAG	GATAATTTGA	TTGTAGGGGA
85021	CCAGTGAGTC	GGGAGTGCTG	CTTGGTTGGG	TCAGAGATGA	AATTATAGGG	AGCCTAAGCT
85081	GTCCTCTTGT	GCTAAATCAG	TTCTTGGGAG	TGGTGGGGTG	GGGGACTCAA	GACCAGATAA
85141	TCCAGTTTAT	CTATATGGGT	GGTGCCAGCT	AATCCATTGT	GTTCAGGGTC	TGCAAAATAG
85201	CTCAAGCATT	GATCTTAGGT	TTTAAATAG	TGATTTTATC	CCCAGGAGCA	ATTTGAGGTT
85261	TAGAATCTTG	TAGCTTCCAG	CTGCATGACT	CCTAAACCAT	AATTTATAAT	CTTGTGGCTA
85321	ATTTGTTAGT	CCTGCAAAAG	CAGTCTGGTC	CCCAGGCAGG	AAAGGGGTTT	GTTTCTGAAA
85381	GGGCTGTTAT	TGTTTTTGT	TAAAAGCAAA	AGTATAAACT	AAGCTCCTCC	CAAAGTTAGT
85441	TAATCCCAAA	CTCAGGAATG	AAAAGGACAG	CTTGGAGGTT	AGACGTTAGA	TGGAGTCGGT
85501	TAGGTAAAGT	CTCTTTCAC	GTAATAATTT	TCTCAGTTAT	GATTTTTGCA	AAGGCAGTTT
85561	CACTGTCCAC	TTACCTCCAC	ATCAGGCCCT	TGACTAGAGG	ATTCCAACAA	TACTTAGGCC
85621	AGGACACCAC	CATGTCTCCT	TATCCACCTT	GAGGGATTCC	AATTTCTGAA	ACAAAGGAAA
85681	CTATATATGA	TAGTATGAAA	CTATATATGA	GAAGGAAATT	ATATATGATA	ATCAATTTTA
85741	GGGTATCTTT	ATTGATTAGA	AGATATTAAA	GTGTGACACT	GCCTGGCAAT	GATATCTGCT
85801	GGTAGTAAGA	ATTTGGCGAA	TTTAGTGAAA	TTCTTGAGGC	TGAACCTCCA	CTTCTGTAAA
85861	ATGGAGACAG	TGAGATAATT	TGCCTTACAA	TGCTGAAGTA	AGAATTTTAC	ACAATAATTC
85921	AGACCAACCA	CTTCATGTGG	TACTTGGCCC	GTGGAAGACT	ATCAATGACA	GTTAGTTTAT
85981	AGTTTATACT	ATTAATGAAT	CCTTTGTTTC	ATTGTTATTT	CCTTCTACAC	GTTGGCCTCT
86041	CTAAAAGAAG	GTAATATTCA	ATACAAATAA	AGTTAAAACA	GCTTGCAGAG	TTGTCCCAGG
86101	GAACTCACTT	AACCACTGAA	GTGTTCAAAT	TGCTTAAGGT	TGACTTTATA	TTCTCCTGAC
86161	TAACCTTTCT	CCTTCTGGTA	TTTCTTCTGA	GAACAGCACC	ACCATCCAAA	GCATCATGCA
86221	AACAGTGGTC	ATCCCAGACC	AGTAATTCTC	AACCTCACAGG	GTGCTCCTGC	AGAGATGTAT
86281	TTGAATAGAG	TGGTAGGATG	CTGAAGAAGG	CCACGTAAAA	TTTGGCCAGT	GATCTGGGGC
86341	AGATTTATCC	TGAAGCTAAT	GAAACACAAG	TGTAAGGGCC	TGTACTTCCA	AGGTGCAGAG
86401	AGGGGCCCTA	CAAATGTGTT	AGTTTGTCTC	TCTCTCTCTC	TCTGATTTTA	AAATTTGCAG
86461	TATTAAGGTA	CTTTAATCAC	GGATGGTTCA	GGCTGCTATT	TTCACTCAAT	CCTCCTTTTT
86521	ATTAAATCA	CCATTGTCTG	ATTATGTTAG	AATCCTGATG	AAAAATTTTG	GAATTTGAGT
86581	AAGAGAAAGT	TTAGTTGAAG	ATGTATCTAG	TATGGGGATA	ATAAGTTACG	TGATTTGCAT
86641	ATGTGATCAT	GTGTACTTCA	TTTCGTTGCCA	GCCAATCTGA	CGTAAGAATG	GCTTCAAGGA
86701	GGCCGGGCGC	GGTGGCTCAC	GCCTGTAATC	CTAGCACTTT	GGGAGGCCGA	GACGGGCGGA
86761	TCACGAGGTC	AGGAGATCGA	GACCATCTTG	GCTAACACGG	TGAAACCCCG	TTTCTACTAA
86821	AAATACAAAA	AATTAGCCGG	GCGTGTGGGC	GGGCGCCTGT	AGTCCCAGCT	ACTTGGGAGG
86881	CTGAGGCAGG	AGAATGGCAT	GAACCTGGGA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCGC
86941	CACTGCACTC	CAACCTGGGA	GACACAGCGA	GACTCCGTCT	CAAAAAAAAA	AAAAAAAAAGAA
87001	TGGCTTCAAG	GAATGTTTCT	ACTGCTCACT	GGAATAACTC	ACCTAAATTC	CTGGCAAGAT
87061	GCAGGTCTAG	ATAAAATGTT	ATGACATCTA	AGTATTCAAA	ACACATTTCC	AGCACTGAGA
87121	GTGAGTGTCT	AGTGGAGAGT	AGAAACGTAT	AGAGCCAGAA	GCTAGTCTGG	AAAGAATTCT
87181	TACAAAGTTT	ACAACTTACA	TGTGAAAGGA	GCTTAACAGA	GGATTTTCCA	AATTTGAAAA
87241	CAATCCTAAA	AACCTTACTG	ACATTACCAA	TAATGTGTTT	TGAAACTGAA	ATACTTCTAA
87301	GTTATGAAGA	AAACATATTA	TCATCAGCCA	CCCTGGAGGA	AAGATTGAAT	TCTATTTCCA

Figure 2 (Page 27 of 74)

```

87361 TTACCTATAG ACAACATTAC AAAATAATTT CGATCTGAAG ATGGAATCAG AGTATTCAGT
87421 CAAAACCTACA GGAAATATA CTTGGTAGTG TCATATTCAG AAGTTAATAA AATATGCTAT
87481 TTTCTGAATT TTGTGATGGC TGTTGTTTTG TCAGCTTTTA TAAAATTGGA ATTTGATTTT
87541 ATTTTCCCAT TATAAATTTA TATTTACAGT CTGCAGTACT TTTGCATTTT TAATTTTACA
87601 TTATAGCTTT TAATAGTTAA CAAGTTGTAA AAGGTTTGAT CCCAGAAAAA CCTTGATCTA
87661 CCCCTCAGT TAAGTATACT AATATATTTA GAAAATGGAT GAAATCAGCA TTTGAATATT
87721 TTTAAATATT TATTTAAAGA GGACATGGGT AAAAGAGCTT TGCAGTTGCC ACCCTTCATT
87781 CTCAAATTCC CTGGATAAGG ATGACCGCAT AATCTTTGGA TGGTCATACG CAAGTCTTGT
87841 GTATTTGTTA CATAAATCTA TTTTGGCAGT TTTTGGCAGT GTGTACTGAG GCCAGTTTCT
87901 TCCACCTGAG CTCTGACTCC ACCTCCAGCA GCCCAAAACC AATACTGAAT TTTGGGGTCA
87961 GCTATTGTTT TTGTGGACTT AGGTAACAC ACACACATTG TCTTTATGAT AGCTTTAATA
88021 ATACTGCCAT CAGAACTAAA ATTGTCACGT GGATTAAAAG GAGTGACGGT GGTGTCCCCA
88081 GGAGCCTTTC AATATGTAAG TATTTACACA TATACATGCT AAAAAGACCC CTAGGAATTT
88141 TTTTAACAAG GGCAAAACAG TAACTCAGCT TGTTTTCTCG CAGTAAAACC GGTGAAAAG
88201 GCCTGATAGA CTTGTCTGCA GTTACAAAAC TTGTGTGTAG TTATCACCTT TATATCTCCT
88261 GGAAACTAAC ATAGACAACC GAATGGGTTA CAACTGTTTT TAAGTGAAAT TGTGAGTGGC
88321 TCTGAAAAGA GCCTTTTCAA TGAGGAAGAA ACGGGCAGAC TTATGCCCTT TCCCCACGGA
88381 TGCGACGTGC CAGCTGGATA TCTTTGGGCA TGATGGTGAC GCGTTTAGCG TGAATAGCGC
88441 ACAGATTGGT GTCTTCGAAG AGTCCCACCA GGTAGGCCCTC GCAAGCCTCC TGCAGCGCCA
88501 TCACCGCAGA GCTCTGAAA CGCAGGTCGG TTTTGAAGTC CTGGGCGATT TCTCGCACCA
88561 GGCGCTGGAA CGGCAGCTTC CGGATCAGCA GCTCGGTGGA CTTCTGGTAG CGACGGATTT
88621 CGCGCAAGGC CACGGTGCCC GGGCGGTAGC GATGAGGTTT CTTACGCCA CCGGTGGCCG
88681 GAGCGCTCTT ACGGGCTGCT TTAGTAGCAA GCTGCTTGCG CGGAGCTTTG CCGCCGGTAG
88741 ACTTGCGAGC TGTTTGCTTC GTACGAGCCA TTTGCAATGA GAGCACACAC AAAAGTGTAG
88801 TGAAGTGAGA GCAAGTGGCC TTTAAATATA GTGAGAAACA TTCTGATTGG TCCTGTAATA
88861 TTTCAAAAGT CCCGCGCGAT AAAATCATTG GCTGAAGAGT GACCAGACTG ATTGGTTTCA
88921 TACTAGACAA TCTTATTGGA TGAGTTGCC CACCGCCCAT CCTGTCTTTT TCGTTTCAGT
88981 TATCTGCAGC GACAAATTGT CTAAAATTCT AGTTCATCCA GTCCCAAAGA ACAGAGTGTA
89041 TAACAAGGTA TCTAAGGATT TTTAAATGT AAATTCGAT TCAGTAAGTT TGAGTGGGAC
89101 TTGAAATTCT GCATTCTGA CAGTCTCGCA AGTTATCAAT GCTGGTGAAC ACTCACTAAA
89161 CCACCAGAAA CGTTCAGACT CATGTCGGGA AATAACGCTT ATATTCAGAG AATGAGATTC
89221 CATGCTATTT TGTTACTGGC GAACAGCAAG TTTCTTTGCC CTTTGTTTTC TAAGTCCAAG
89281 TCACATTCCC ACCCTGCCTG TTCTCAAAAT GTCTTATTTT GGTGGCCTT AAGTTTCACT
89341 TTGTATACTC TAAAATGTAC TTTCTAAAGG AAGGTGTTAT TTTCTCGAAA CTTAACTTTT
89401 TAACACCATT AGGCTAGGGG GGCGGTGGCT CACGCCGTGA ATCCCAGCAT TTTGGGAGGG
89461 CGAGATGGGA CGATCACTAG AGGCCAGGAG TTCAAGACAA CCCTGGCTAA AATGGTGAAA
89521 CCCCGTCTCG CATAAAATA CAAAACCTAG CTGGGCGCGG TAGCAGACGC CTGTAATCCC
89581 AAGTACACAG GAGGCTGTGG CATGAGAACC GCGTGAAGCG GCGGGGTGGA GGTGCGAGTA
89641 AGCCGATATC GCGCCGCTGC ACTCCAGCCT GGGTGACAGA GCTAGACTGT CTCAAAACAA
89701 ACCAATCCAA ACGAAAAGCA AAAAATACCC TAACAGAAGC AAGTTATCAT CCTTTCTTGT
89761 GTAACATAGG ACGGCTCTGA AAAATGCCGT TTCAAGTGTA AGCTACGTTT TCTGATTTGA
89821 GTGTTTACTT GACCTTGGCC TTATCGTGCC TCTGTTATTT TGGCAACAGG ACGGCCTGAA
89881 TATTGGACAG GACGCCTCCC TGAGCAATAG TGACGTTGCC CAGCTGCTTG TTGACCTCCT
89941 CGTCGTTTTG GATGGCCAGC TGCAGGTGGC GGGGGATGAT GCTGCGGGT TGTTCACGTA
90001 TGGCGCTGCC CACCAGTTCT AAGATCTCGG CGGCCAGGTA CTGTAAGTAC ACTGGCGCAC
90061 CGGCTCCGAC CGGCTCAAAA TAATTGCCCT TTCGAAAAAG ATGACGGACT CTGCCCTATT
90121 GGGAAC TGCA AGCCCGGTAG CGACGAACAA GTTTTGTGCTT TAGCTCCATT TTCCACGTCC
90181 GCAAATAGCG ACCTATGAAA GCAGCGGAAA ACTGTGAAAG ACAAGCAAGC TGGAAATGGCG
90241 CCTGAACAAA TCCTTTTATA CAACTGCAA GGCTGCAATA GGAAGCTATC CTATTGGTCA
90301 ATTATGTTTG GTGCTTTTATC CAATAGAAAA AGATAACATA AATTCATAT TTGCATAAAC
90361 CCCACCCCTC AGTGAAACCG TGTTTCTTTT GTCCAATCAG AAGTGAGGAA TCTTAAACCG
90421 TCATTTGAAT CTCAGGACTA TAAATACATG GGCTCTGAAC GTTCTCTGT ACTACTCTGT
90481 AGTGGAGAGT GTTAGTAGCT TTTCTATTCT GTTTAGGAAT AGCAATGCCT GAACCTCTA
90541 AGTCTGCTCC AGCCCTAAA AAGGGTTCTA AGAAGGCTAT CACTAAGGCG CAGAAGAAGG

```

Figure 2 (Page 28 of 74)

90601	ATGGTAAGAA	GCGTAAGCGC	AGCCGCAAGG	AGAGCTATTC	TATCTATGTG	TACAAGGTTT
90661	TGAAGCAGGT	CCACCCCGAC	ACCGGCATCT	CATCCAAGGC	CATGGGGATC	ATGAATTCCCT
90721	TCGTCAACGA	CATCTTCGAG	CGCATCGCGG	GCGAGGCTTC	TCGCCTGGCT	CACTACAATA
90781	AGCGCTCGAC	CATCACCTCC	AGGGAGATTC	AGACGGCTGT	GCGCCTGCTG	CTGCCTGGGG
90841	AGCTGGCTAA	GCATGCTGTG	TCCGAGGGCA	CTAAGGCAGT	TACCAAGTAC	ACTAGCTCTA
90901	AATAAGTGCT	TATGTAAGCA	CTTCCAAACC	CAAAGGCTCT	TTTCAGAGCC	ACCTACTTTG
90961	TCACAAGGAG	AGCTATAACC	ACAATTTCTT	AAGGTGGTGC	TGCTGCTATT	CTGTTTCAGT
91021	TCTAGAGGAT	CAACTGGAAT	GTTAGCGAAG	ACAAGTTTTA	GAGCCAAGGT	TAACCTGGAC
91081	GGGGCCGTGC	GCGGTGCCTC	TTGCCCTTAA	TCCCGGCAAT	TTGGGAGGCC	GAGGCGGGCG
91141	GATCACTTGA	GGTCGGGAGT	TCGAGACTAG	CCCGGCCAAC	ATGGCGAAAG	CCCGTCTCTA
91201	CTAAAATACA	AATGATAGAC	GGTCGTGATG	GCGCTCTTTC	TCATCTGTCT	TAGCAAACTT
91261	CTTTGTTCCT	CCTGGGTAAG	CCTTCGGGTA	CTATGTATAA	TTCTTTTGAT	AAGGTCACTA
91321	CTCCCTCCCT	GGTCTAGTAC	AGGAAACTTC	CCTTTCTGGA	TAATGAAGCA	GGTAATGGAA
91381	TTCAGGGTAT	AGTGTTCCTG	TGGGGGTCAT	TAGCCGTTAA	CTTCTTGTGA	GATGCGGGGG
91441	AGGGGAGCAG	AAAAGTCTAA	GCGACAAAAG	GGCATGTAGG	GATATTTGCT	CCTGCAGCTT
91501	GCCTATGCTG	TAAATTCCTA	CTTCAAAGTAT	TGAGGAAACA	ATAAGCGAAG	TCTGATTTCC
91561	CGGGCGCCTT	TATACGGAAT	ATTTCCCGCT	CCACAAAATG	AAATCGCAGT	AGTTTTGAGT
91621	TATAATTGTT	TATCAATGAC	AACAGCTATG	TAGTTTACAT	ATTTTCATGCA	TCCCAGAAAT
91681	CCAGATTCCT	ATTTCCTAAG	CCACTTAACG	TTCTGATTTT	CAGCTCTGCG	AGATACAAAA
91741	GGGTTTGGAT	TTTGTGCCCT	TCCCCATCTG	GCGCCACTGC	AAAGCTTACT	AGGAGGGCCC
91801	CACTTGGAGA	GGGAAATCTT	TTTCGAGAAG	TCCAGGACGC	CAAAAAACAAT	ATAGCTAAAA
91861	AAAAAAAAAA	AAAAAAGGCA	GGAAGAGCAC	TAGTTGAGGA	GGAGGACTCA	ATGGGCCAAT
91921	TC TG GGGCTG	GGGCTGGGGG	AAGAAATGCA	AGAAGAAAAG	ACACTTGTTG	ACTGCACAGT
91981	AAGCAGGAGG	GGGTGGGGGA	ATCGGAGGGG	AGTATTTTCA	GCGAATTTAT	GGGCATTATA
92041	TGTAGGTGAC	ATACAGCAGT	GTCTTTGGAT	GAAGAAATAA	AGTTTCTCAA	ACAGTTCTTG
92101	TTTTTGT'TTT	GAGAAAAGGC	CTTCTCTGT	CGGCCAGGCG	CCATCATAGC	TCAGTGCAAC
92161	CTCGACTTCC	CCAGCTCAAG	CGATCCTCTT	ACTTCAGCCC	CTTGAGTGGC	TGGGACTAGA
92221	GAAATGCACC	ACCATACCCA	GTTAATTTTTT	TAATTTTTTTG	TGGAGGCAAA	GGGTCTTACT
92281	TTGT'TGCCCA	GGCTGGTCAA	GCGAACTCCT	GGGCTCAAAT	GATCCTCCCG	CCTTGGCCTC
92341	CCAAAGTCCT	GGGATTATAG	GAATGAGTCA	CCGCGCCCGG	CCCAGATTTA	ATTTTTTAAGA
92401	ATCTTTTAAA	AGAGGTTCTG	GGCCGGGTGT	GGTGCAGCTC	ACGCCTGTAA	TACCAGCATT
92461	TTGGGAGGCC	AAGGTGGGAG	GATCACTTGA	GCCCAGGAGC	TCAAGACCAG	TCTGGGCAAC
92521	TTAGTGAGAC	CTTTTGTCTC	CACCAAAAAT	TAAAAAAATT	AACCAGGCCT	GGTGGCACAT
92581	TTCTGTAGTC	CCAAGTACTG	GGGAGGCTGA	AGTGGGAGGA	TCATTTGAGC	CTGGAAGGTG
92641	GAGGT'TGCAG	TAAGCTGTGA	CGGCACAAC	GCACTCCAGT	CTGGGTGAGG	ACAGACCCTG
92701	TC'TCAAAAAT	AAAAAATAAA	AAAAAATCTG	GATGCCACAC	AAAATGTCAG	TGAACAACCTG
92761	TAAGTGAAGC	ACTTCCCATC	CTAGTACTGT	ATATGCAAAAC	TGCCGTTGTG	AAAGTGACGC
92821	TTGGCTTAAA	AATCTACATT	CTTTTTTTTAA	TTATAAAACT	ACCACATCCC	CCAAAAACAT
92881	TACTAAGGAA	TTGAGGCTGC	AGTTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
92941	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACTTTTG	GGCCAGGTGA	GGTGTGTCAT
93001	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACTTGAGC	TCACAATTCC
93061	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCTCTACAA	AAAATTAGCA	GGGCGTGGTG
93121	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
93181	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	GCCGCCACAG	CCTGAGCGAC	AGAATGAGAT
93241	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAATAAA	AAAAAAATTT	AGCCGGTCGC
93301	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCACGAGGTC
93361	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
93421	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
93481	GAGAATGGCG	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
93541	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAAATAA	AAAATTAAAA
93601	AAATATGAAG	TTTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTCATAA	ATTTTTTTGCC
93661	TGCC'TGCC'TT	CTTCC'TTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
93721	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
93781	CCCATCCAGA	CCCCAAGAGA	GGGTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT

Figure 2 (Page 29 of 74)

```

93841 CCGCAGTGCA AAGTAAATGC AAGTTTACTA AGAAAGTAAA GTGGTGAAAC GACAACTACT
93901 CCATAGACAG AGCAGGACAT TCCCGAAAGT AAGAGGAGGA AGGCATCCAC CCTAGGTACA
93961 ATACTTGTAT ATATGGGGAG ATGTGCTCTG CTACAAGTTT GTGATAAAGG ATTAATTTTC
94021 TTAGTTACTA TATTTTGCAA GAATCAACAT TATTATCTTT AAACAAAATT AAGAATGCCCT
94081 TTGTTCTCCA GATATAGGGA TATCTGGACA CTCCTAAGTC TGAGTCTGTT TAGTAAACAT
94141 TATTTATTTG TTCCCTTAAC CGTAAACATC TAGAAGCTAG GAATGACTGA CTTTCTGGGA
94201 ATGCAGCCCA GAAAGTCTCA GCCTCATTTT CCTAGCCCTC ACTCAAAATG GAGTTACTCT
94261 GGTTCAAGTA ACTCTGACAC TTTTCTTCTC TTTTCTTCTT CTTTCTTCTT TCCTTTATTT
94321 TTTATTTTTT ATTTTTGAAA TAAGAAATCA AGAATACTTG ATGTTTCATC TAAAACAATA
94381 CCCATAATTG ATAAGCCAAA AAAAAACCT AGGTCTTCTA ACTCAAAACT AGGATGTTTT
94441 GCTGTCTCTG CTGATACTCG GCTGATCGTT AATAGGTAAT TAACAAACAA GCCTTGCTAT
94501 GTCCCCCTCA GTTTATTACC ATTAGATCAT ATGCCTACTG TCAATCATAT TAATCCACAA
94561 CTATGCATTT CACAAAACCT GCCATAAAAA TTCACAGGTT TCCCGCTTCC CTCGAGTTTT
94621 CATTTCCGAA GGGTCCCATG TAATATAAAA CTTATATTAA ATACATTTGT ATGCTTTTCT
94681 CTTGCTAATC TTTTTTTTTG TTTTTTGAGA CTGAGCCTTG CTCTGTCACC CAGGCTGGAG
94741 TGCAATGGCG CGATCTCGGC TCACTGCAAC CTCCGCTTCC CAGGTTCAAG CGATTCTACT
94801 GCCTCGCCCT CCGAGTAGC TGGGACCACA GATACGTGCC ACCATGCCCC GCTAATTTTT
94861 GTATTTTTAG TAGAGACAGG GTTTCACCGT GTTGGCCAGG ATGTTCTCAA TCTCCTTACC
94921 TCGTGATCCG CCCGCTTCGT CTTGCCAAAG TGCTCGGATT ACAGACGTGA GCCACTGCAC
94981 CCGACCAATC TGTCTTTTTG TAGAGGGGCC TCAAGCATGA ACTTACTGAT GGGTGAGAAA
95041 AACAGAATTT TCTTTTCCCC TACAATATAA ACATTAATTG TAATGTTATC ATTCAGGACA
95101 TTTTGGTGAC CAATCTTACA GAAATTTTAT CTTGTGCAAG TCTATGCAAA CCAATATGTA
95161 AATCTTCTAT AAGTGAGATT GTATTTCACT TTTCTAGTAT CCTTTTAAAT TAATAAAAGA
95221 GATTCTAATG ATTATTTTCA TTACTGCATT TCATTGTAGG GAAGTAGATA ATTGCCCTTT
95281 ATTCATGAC CTTGCTTTTT TAAAAATTTA AACCATGTTA CCATGAAAAT GCTTTTCAGT
95341 ATTTCTCTAC ACACAAGATT GCTGTAAGGG CAAAAATAGA GATAGGAATC ATGCATCCAT
95401 TGATATACAT ATTTTGATTT TTAATACATG TTACCAAGTT GCCTCCTGAA GGTCTGTTTA
95461 CACTCTCACC AACAGGGTGT TTTTCTCTGA CTTCCACAAA TGCTCTTGAA CAGTGGGTGT
95521 GTTAGTCTGT TCAAATTGCC GACATGAACA ATTAAATCTC ATTGTTGTTT TTATTTTTTAA
95581 GACAATTATT GTTTGAGACT GCACATTTTG ATAATAACAT TTCTTCTATT ATGGTTTGAT
95641 TACTCATGAT TCTTGCCCAT TTTCTTTTGG GATGTTGCCT TATGTACATT ATTTTAAATA
95701 GATAGCTCCA TGTATTAAAA GATTATTAAAG TTTGAGGGCT TATGATATGT CAGTTACATT
95761 TCTAAGATTT TTTTTTTTTT TTTTTTGAGA CGGAGTTTCA CACTTGTTGC CCAGGCTGGA
95821 GTGCAATGGT GCGATCTCGG CTCACCGCAA CCTCCGCCTC CAGGGTTCAA GCAATTCTCC
95881 TGCCTCAGCC TCCCCAGTAA TTGGGACTAC TGGCAAGCGC CACCACGCCT GGCTAATTTT
95941 GTATTTTTAT TAGAGATGAG GTTCTCTCCAT GTTGGTCAGA CTGGTCTCGA ACTGCCGACC
96001 TCAGGTGATC CACCCGCCTC GGCTCCCAA AGTGCTGGGA TTACAGGTAT GAGCCACTGG
96061 GCCCGGCCAC ATTTCTAAAT TCTTTATAAG TATAAATTCA TTCAATCTTC ACCAAAACCTC
96121 AATGAAGTGT GAGTACTATT ATTATCATTT TTTTACAGAT CAAAACAAGT AATACAGTCA
96181 CTTACTGAGT TCTATACACC TGGTAATTTT TTTGTTTCGT TGTCTATCA ATTATTGGGG
96241 AAGGGGTGTT GAAATCTCTA CTTTAAATC ATGTATGTGT CTATTTCTCC TTTGCTTCT
96301 ATCAGGTTTT GCTACACATA TTTTGCAAGT CTGTTATTTG GTGCATATAC ATTTAGAATT
96361 GCTTGTTTTT CGTATTGGAT TGACCCTGTT ATCATTATGT AATATCCCTA TCTGTTCCCTA
96421 GTAATTTTCT TTGCTCTGAA ATATACTTAT CTGATATATC ATCCAAAAGA CCACAGGAT
96481 GGCTAAAGAG TAGAAAGGAG AGATTTACTG GCAATACTAA TTTGCAAGCC AGGAAGAGAT
96541 GGTCCCAGAA CCTGCCAAAA TTACTCTCTC TTTGGGGAGA AGGAGCAGGT TGGTTATTTT
96601 TATGCCTCAT AGGCTATATA TTACACAATA GAGTCATACA TATTTAGCAC GTTTGGGGGG
96661 ACAGCTATAT ATATTATGAG GGGTGCCAAG TGCATTCACA ATGGATAAAC ACGTGTAAATA
96721 TACCTCCCAT GTTCACTTCG AGGTTAAATT TTTGTTAAAA TGAGGTAGAA TTTAGGTCTT
96781 TACATCACAA GGTGAACTAT AGGAACAAAG TTTACGTGCT GCCTCTAGCA GCTGGCTGAA
96841 AATGGCTTAA GGTCTACAAT TACGTGTAAG AATAGAAATG GTGTCAAGGC GGTCTCTGT
96901 CCAATCAGAG TTGTAGTGGA CTGGACTGTA AATCAGAGTT AGGAGGGCTT CTGATAGCTC
96961 CTATAGTTAA GGAATTTAGC AAGTGTGAGT TTTTGGTAG TCTTTGGAAT TTAGGAATTT
97021 GCCATGCCAG CCAAGCCATG AATGCTCTAC CAGTAGGTAA CTTTGTGTTG TTAATCTTAG

```

Figure 2 (Page 30 of 74)


```

97081 AGTCTGTCTT AGTTGGTATA GGGGCATCTA TTTTGGTCTT TCAGATCCCA GATATTATTA
97141 ATACAGATAC TCTTGCAGTT TTGGGCTGAT GTTTATATGG CTTATCTTTT TTGCAGCCTT
97201 TAATTTCAAC CTGCGTTATG TTTATATTTG AAGTGAGATT CTTCGAGACA GTGTACAGTT
97261 GTTGTTTTTT TTTTTTTTGA GATGGAATTT CACTCTTGTT GTCCAGGCTG GGGTGCAGTG
97321 GCACAGTCTC AGCTCACTGC AACCTCCGCC TCCTGGGTTT AAGGGATTCT CCTGCCTCAG
97381 CCTCTTGAGC AGCTGGGATT GCAGCCATGC GCCACCACAC CCGGCTAATT TTTGTATTTT
97441 TAGTAGAGAC AGGATTCACC ATGTTGCCCA GGCTGGTCTC GAACTCCTGA CCTCAAGTGA
97501 TCCGCCAGCC TCGGCCTACC AAAGTGCTGG GATTACAGGT GTGAGACCTC GCGCCAGCC
97561 AAACGTGTTTT TTTATGGGTG TATTTATACC ACACACATTT AATGCAATTA TTGATATCTT
97621 AGGGCTTAAG TTCATGAAGG GTAGTGTGGG AACCATAGTC TCTTGGCCCA CTAAATGTTT
97681 GCCAGAAATC ACTGACAAGG CAGATTGATT AATAGGTGAA AAGGCATTTT ACCTATTGTT
97741 TAACGTGTCT ATGTGGGAGC ATTCAGAATT AATTACCTAA CTTCCCAATG AGTTATAGAT
97801 GCTTATATAC CATTTTTAGA TCACAGAAAG AATTGGGGCT TAGATTCTGG TAAACAGGT
97861 TATGGGAGGC AAAAGAGGTT TGGCTTGCAA AGGTGGCCTT GTTAGGTAGG TGAAGCCTCC
97921 CTCAGAAAGA ACAGATGGTA AATGTTTCTT TTATGATTTT TAAGTGTGAG ACTCTCAGTC
97981 TCTCTGGAT CTGGGGAAG GTATAGAAAG GTGAGGAGGC ATGGCTGCAT TAATGGAGAT
98041 TCTCTACAGA TGTAATAATT TTCCCATTTA AGGCAGCTTT GCAAGCCCAT TTCTGCCTGC
98101 TGGCCAAGCA GCAGCCATTT CAAAATATGT CAAAGAAATA TATTTTGGGG TAAATATTTT
98161 TGATTTCTTT TAGACTGGTG GCCTTATAAG AAAAGGAAGA GACACCTGAG CTGACACACA
98221 TACCCTTGCT CTCTCAACAT GTTATGATGC AGTAAGAAGG CCCTCACCAG ATACTAATTC
98281 CATGCCCTTA GCTTCCCAGG TTCTAGAAC AATTTCTTTT CTTTAAAAGT
98341 TAGCCAGTCT GTGGTATTCT GTTATAGTAT CACAAAATGG ACTAAGTAAC TATATTATGA
98401 TCATCTTACA TGACTGATCC CTCTTACATC ATACACATAC ACAGGCCACA TTTGGAACAT
98461 TGTTAGAGGT TCCTCTACCC AGTACAAATG TACTACAAAT TATATATGTA TTTTAAATT
98521 TTTGAGTATC TTCAATAGTA TATTTTCGTT AACTTTTGTA GTCAAAATGT CATTATAACA
98581 TGTATTCAAT ATGCATAATT ATTAGTCAGA TGTTTTACAT TCTTTCTTCA TACTAAGTGA
98641 TATGGTTTGG ATATTTGTCC CCTCTAAATC TCATGTTGAA ATGTAATCTC ACAGTCTGGA
98701 AGTGAAGCCT GGTGAAAAGT TTTTGGATCG TGAGGGTGAA CCCCTCATGA AGCGCACTCT
98761 TCAGGGTAAT CAATGGGTTT TCACTTTGAG TTCACAAGAG ATCTGGTTCT TTAAGAGAGT
98821 GTGACACCTC CCCCCTCTCT CTCGCTCAGC TCTCACCATA TGATATGCCT ACTCCCTCTT
98881 CACCTTCCAC CATGATTGGA AGTTTCTCTG GGACTTGCCA GTAGCAGATG CCTGCACCAC
98941 ACCTCTGTA CAGCTGCAC AACCGTGAGC CAAAAAAAT TACTTTTCTT TATAAATTAG
99001 TCAGTTTTCAG GGATTCCTTT ATAGTAATGC AAGAACGAAC TAACACACTA AGTCTATTTT
99061 ATATTTACAG AATAGCTCAA TCTGAAGTAC CCTTTTTC AATCAGATG GCTACTTGTA
99121 GCTAGTGGGC ACTGATTTGG AGCGTGTTC AAGGTGAATT GTATTATGCA ATTAACAGAT
99181 TTTTATTATT GTTTTCGCAA ACCACGAGGC ATAGATTGTC TTACTTTCTC TGCTCCTGGT
99241 GTTGGAGTTG TTATTGGGAA ACAACTTATT TTCTCTTAT ATTTATATGG AATAAATAAC
99301 CCCCAATATT TCCCTCCCCA ATATCTGCCT TTTGTATGTT TTTTGAAGGC AAGTGCCTAG
99361 AATTTACTGT TTTTGAAGCA CTTACTGAAA GGATTGCCAT CAAGTTGTTT TGCTAATAGT
99421 ACATGCCAGG CGCTTGTTGG TTTGCTTAAT TCAAGGTAAC TTGGATGAGA AGAAGAGTTT
99481 TTCTCATCCA TGGCTCAGTG GAGTATAGAT TACTGATATT GTGACTGGAT GTACTCCTGC
99541 TTTCTAGTCC GAGTTTTTGA AGCTACCCTT AATCTTGTT TCAATTTTAT CTAGCCCTGT
99601 ACATATCCAA GGCTCTTTCC AAAATGGTCT ACGATTTGTT TAGGAAGTTA GAATAGCTGT
99661 ACTTTCTGAA CCACGGTTCC TGACATTTTC TGGACTTCAA ACACATCCAG CATTTTATCG
99721 AAGTATTTAT CCTTCCTACT TGGCTGGCTT CTTCTTGCC TTCAGGTCTG AATTCAAATG
99781 ACATTCTCCT GATGAACTT TCCATCCTTA TTTCTATTCT TTTTCTTAT CCCCTTTCTT
99841 TATTTTCTC CACAGCACTC ATCACTTATC TCTACATTTT CATTATGTAT TTACCTTATT
99901 GTGCACCTCC CACTACAAGA CAAGTAGCAC CGTAAGGAAA CAGGTGTGCT GCTTTTTCAC
99961 TGCTATGCTC CCTGCACCTA GAACACTCTC TGGCACTTAG CAGGTTTTCA GTAAATATAT
100021 GCTGAACTAA TAATGCTGGA TATACATCTC CCTCATGAAC TCTCTAAATC CTTCTAATTT
100081 ACATTGATCA ATCTTCTTTT CCATGTGCTT TTGTATGATT TATTGCTCAA AATCTTTATT
100141 TTGTATGCAG AACGTGCACT GCTATTTAAT CTTTATGTAC GTAAGTCTC CTTCTCTGTA
100201 GTATAATCTC TTCAGGGCAC TATCTGAGAT AACTTTTTTA CATCTCCATC ATGAATCTTG
100261 TACCTTTTCA AAGAAAATGA GCCAGTGATT ACTGATGTTT ACGGCTATTG TTGAGGGTGA

```

Figure 2 (Page 31 of 74)

100321	AGATCATTAT	AATTTTGAAA	AGGGAAGTTG	AATATTGTGA	AGGGAAAGAT	AACACTAGAG
100381	TCAGAAGACT	TGGGAGAAGG	CAAAAAACAA	ACTAAAAATG	AGCACTTTTA	GTCTCCTGAC
100441	AGTTTCTCTG	AATCAAATCC	ATAGTTCTGT	GACAGCGTTG	GCTTAGAAGC	AGATTTTTTTT
100501	TTTTTTTTTTT	TTGAAATGGA	GTTTCGCTCT	TGCCCAGGCT	GGAGTGCAGT	GGCACGATCT
100561	CGGCTCACTG	CAACCTCTGT	CTCCAGGGTT	CAAGCGATTG	TCCTGCTTCA	GCCTATGGAG
100621	TAGCTGGGAT	TACAGGCTCC	CACAACCACG	CCCAGCTAAT	TTTTTGTATT	TTTAGTGAAG
100681	ACTGGGGTTT	CACCATGTTG	GCCAGGCTGG	TTACGAACTC	CTGTTCTCAA	GTGATCTGCC
100741	CGCCTTGGCC	TCCCAAAGTG	TTGGGATTAC	AGGCATCAGC	CACCGTGCCC	AGCCAGGAGC
100801	AGATTTTTTTT	ACACTCATGT	TTCTTTTTC	TTCTGTCATC	CTGTTTCAGT	ATAAGCAGAC
100861	CACAGATAGA	AGTAGTAGAT	ACCTGAGAAA	TTCTTGGAAT	AATTAATCCA	CGTTCATCTG
100921	TACTCCATCT	GCTCCTATCT	CATGGAATAT	AAAAGGAAAA	ACACCAAGAT	TTCCCTAGGC
100981	AATCTGTCTT	GATTTTAGGT	TCCTCAACAG	GAGAGCCAGA	CAATGGCTGT	AATAATATTG
101041	TCCCGGCCAA	GGAAAACTT	CCCTTTTGCC	CTCCCAAGGT	TTATGGAAAA	TTACTGGCAA
101101	AACACAGATT	AACTGGAGAA	AAGGCATATA	TATTTATTTT	ATCACAATTT	TACAGGAGAT
101161	TTTAGAATTA	AGACTGAAAG	ATACAGGGGA	AATTGCCCAT	TTTTATGCTT	AGGTTCAACA
101221	AGATAAACAG	CTGTATAGGG	TACGATCTAA	TGCTAACAGA	CTGAGTGGGG	AAGCCCCGCA
101281	AGGCTTGTCT	GTCAAGATTC	TTCTTGACCT	CTCAGTGCAG	CATTTCTTCC	TTCTGGTTAT
101341	AGGACAAGAC	TCTCTTTTAG	AATGGGGGGT	CTTATGACCT	ACAGGCAAAC	AAGGTAGGTT
101401	AGAGTAATAT	TTTTAGGTTT	TATGGCTGGT	TCTAGGGAAA	AGGAGTTCTG	GTTTGTATGG
101461	CCTACCTTGA	GGAGGAATTC	TGGTTTCTAT	GGCTAGACTT	TGGGGAGAAT	GGGACTTACA
101521	GACAGGAAGG	CAGAAGGTGG	TCAGTGAAAC	ACTTTTATAA	TCATAATCCC	ATTTTGTAGTA
101581	TTTCTGTGTT	ATGGAATGTT	TGTTCTCTCA	TTTCCTGAAA	GATTCCAGAG	ACTCCTCATT
101641	CAGTGTGTG	AAAAAGTTCA	GGAAATGCAA	CTCAAAAATG	TGCCACTTTG	TTACGCTGAT
101701	TTCTTTGAAC	TGAGGGCACC	TAGGAAACAG	TAAATTCAAG	GAAGGGCTTT	CGCTGAACTC
101761	TAATCAAAAA	TTTGAAAATT	AAAAAAAATG	TCAAAAAGGA	ATTTAGTTGT	TAAGATTAC
101821	TTCCCTGGGG	AATCTCATCA	ACCAGGAAAG	ATTAAGTGA	TCACAGGAGA	GGAGACTGGT
101881	GGTTAACACC	ATCTAAACAG	ACTTTGTAC	AGCTGTAC	TATTCTTTGA	AACACCCATT
101941	TATTTTCTCT	CAAAATCATA	TACTCTCCCC	TAAGTTGCCT	ACATCCCCCT	TCTTTCTCCC
102001	TTATGAATCA	AGAGAGCTTA	TAAGCTTCTA	CAGTTCACTG	GGATTTGGGG	GATTTCGCTTT
102061	TCTTCCCTCC	CACTCCCCCT	CCCCTTTTTT	TGTCTTTGAG	ACACAGTCTT	CTGGCTCTGT
102121	CGCCCACGCT	GGAGTGTGGT	GGCTCTATGT	GAACCTCACTG	CAACCTCCTC	CTCTCGGGTT
102181	CAAGCGATCC	TCCCACCTCA	GCTTCTCGAG	TAAGTGAAC	TACAGGCGTG	CACTACCAAG
102241	CCCGGCTTTT	TTTTTTTCTT	TTTCTCCCC	GTTTCTTTT	TGGTTATTTT	ACTGGAGACA
102301	GGGTTTCTCC	ATGTTGTCCA	CGCTGGTCTC	GAACGCTGA	CCCGCCGTCC	TCGGCCTCCC
102361	AAAGTGCTGG	TATTACGGGC	ATGAGCCACT	GCGCCCGATT	TGAAGGACCT	CTTAAATATC
102421	TATTTAGAAA	TTGGTCCGGAG	TCCACTCCTT	TCCAAAAACA	TGAGTCACAA	TCCGGGAAAA
102481	GCACGAGCGG	CTGAAAGTCA	AAATAACCAG	AACAAAACCT	CCACTCATGC	TTAAAAAAGG
102541	TATTTTGACA	AAATCCTAAT	TCGGCCAATT	ATTATTAGTA	TTCAAGTCGA	AGGCTCGTCA
102601	AGCCAGACTG	GGGATTGGGT	CAAACATAAA	CCTTACACCA	GACGGAAGGA	TTACATGCAA
102661	ATGAAGGATG	CAGATTCTGA	TTTCCCATTG	GGTATTTGAC	ATTAGCCAAT	GGGAGAATTC
102721	CTCACAGCCT	ACCTCCAGTC	AGTATAAATA	CTTCTCTGCC	TTGCGTTCTA	ATGTAGTTTC
102781	ATTACATTTT	CTTGTGGCGA	TTTTCCCTTC	TTATCAGAAG	TAGTTATGTC	TGGTTCGCGG
102841	AAACAAGGCG	GTAAAGCTCG	CGCAAGGCT	AAGACTCGGT	CTTCTCGTGC	AGGTTTGCAG
102901	TTTCCTGTGG	GCCGAGTGCA	CCGCTTGCTC	CGCAAAGGCA	ACTACTCCGA	GCGCGTCGGG
102961	GCTGGCGCGC	CGGTGTATCT	CGCGGCGGTG	CTTGAGTACC	TGACCGCCGA	GATCCTGGAG
103021	CTGGCGGGCA	ATGCGGCCCC	CGACAACAAG	AAGACCCGCA	TCATCCCGCG	CCACCTGCAA
103081	TTGGCCATCC	GCAATGACGA	GGAGCTTAAT	AAACTTTTGG	GGCGTGTGAC	CATCGCGCAG
103141	GGTGGCGTTT	TGCCTAATAT	TCAGGCGGTG	CTGCTGCCTA	AGAAAACCTGA	GAGCCATCAT
103201	AAGGCCAAGG	GAAAGTGAAG	AGTTAACGCT	TCATGCACTG	CTGTTTTTCT	GTCAGCAGAC
103261	AAAATCAGCC	TAACAGCAAA	GGCTCTTTTC	AGAGCCACCT	ACGACTTCCA	TTAAATGAGC
103321	TGTTGTGCTT	TGGATTATGC	CGCCCATAAA	GATGTTTTTG	AGGTGTTTTT	AATGGCTTTG
103381	AGTGTGGCAC	TTTTAGTAAT	TTGTCTTGCA	GAAATTAGAT	CCATAGAAAC	CTCAGGAATT
103441	CTAGGTATGT	GGGAGAAGTG	CCATGCAGCA	CAAAACATGT	TTACAGGGGT	GATTTCGCGTT
103501	AAGTTTCACA	CACAGCAGTT	ACTACATTTT	AGAGGAAGGA	AATTATACCC	ATGAGTGCAT

Figure 2 (Page 32 of 74)

```

103561 TCCTAACTAT CTTGAATGGA AGTGTAAAA CCCGCATGCC CCACACAAGT TTGAATATGT
103621 CATACCATTT GCTGTAGCAA TTAATGGCAT ACACAATTGA GAGCACACAC ATTACCACTG
103681 AACATTTGAG TATGTATTTT CCAAATGAG CTTTTTTTCCA GTTTGGGGAT GTTTTGCTTT
103741 GTTTTGGGGT GGAGTCTCCC TCTCGCCCAA GCTGGAGTGC AGCGGCGTGA TAACAGCTCA
103801 CTGTAACCTC GAACTCGGGC TCAAGCGATC CTCTTGACAG CCTTCTGAGT AGCTGGGATT
103861 ACAGGCGAGA GCCGCCACGC CCGGCTAAGA GCATTTTCTT AATTGCCAC ACTTCTTATG
103921 CGACACCCAG AAAAATACAA TTTTAAATA AGCGCATATG CAAATTTCCC TAATCGTCTC
103981 CAATATTTCT TGATTTCTTT TTTATATTTT AACTAGAAAC AATTGGAGGT TTCCGCGTTG
104041 CTTTGTGTGG TTGTAAATTT TAAGACTTCA GGAAACTTTT CCAGTACAAG ACTTGTCCAC
104101 AGTGGATATA GCAGCTAAGG GGTAAACAAA ATGACGTCAG AGTAGCTACG GTAATGGGCA
104161 GGAGCCTCTC TTAATCTGCA ACCAGGCACA GAGATGGACC AATCCAAGAA GGGCGCGGGG
104221 ATTTTGAAT TTTCTTGGGT CCAATAGTTG GTGGTCTGAC TCTATAAAAG AAGAGTAGCT
104281 CTTTCCTTTC CTCCACAGAC GTCTCTGCAG GCAAGCTTTT CTGTGGTTTT GCCATGGCTC
104341 GTACTAAACA GACAGCTCGG AAATCCACCG GCGGTAAAGC GCCACGCAAG CAGCTGGCTA
104401 CCAAGGCTGC TCGCAAGAGC GCGCCGGCTA CCGGCGGCGT GAAAAAGCCT CACCGTTACC
104461 GCGCGGGCAC TGTGGCTCTG CGCGAGATCC GCCGCTACCA AAAGTCGACC GAGTTGCTGA
104521 TTCGGAAGCT GCCGTTCCAG CGCCTGGTGC GAGAAATCGC CCAAGACTTC AAGACCGATC
104581 TTCGCTTCCA GAGCTCTGCG GTGATGGCGC TGCAGGAGGC TTGTGAGGCC TACTTGGTAG
104641 GGCTCTTTGA GGACACAAAC CTTTGCGCCA TCCATGCTAA GCGAGTGACT ATTATGCCCA
104701 AAGACATCCA GCTCGCTCGC CGCATTCGCG GAGAAAGAGC GTAAATGTAA AGTTACTTTT
104761 TCATCAGTCT TAAAACCCAA AGGCTCTTTT CAGAGCCACC CACTTATTCC AACGAAAGTA
104821 GCTGTGATAA TTTTTTGTG TCTTAACAGA ACAAATTTCT AAGGACCCCC CCGGAAAGCA
104881 TTAGACTATG GTCTTAAAGT TGATTAACAG AAATAACGGT TTGGTCAGTC TTGCAGTGTA
104941 GGTTATTTCT GACCTTATTA AGGTGCTATT TGGAGAGAAG CTGTGTAAGT CCACTATCAT
105001 TCAGGCCTCT AGCTTGCTAT GATTGACATT TGTTTAAACA ACTTTGTAAG AGTAAGGGAA
105061 AAATCTGGTA AGTAGTTAAC TGGCGCTTAC TAGGCATTTT TGCAAAGCTT TGAAAAGATT
105121 AGAAAATTGT GTCTTGCGAG TTCCAGTGTC TTCCCTCAAAA TGCTTAGGAA GATTTTCTCA
105181 GCTCAATACA TAGTCCCCTA GGTTTTCTCA TATATTATAT ATATATATAT ATATATATAT
105241 ATATATATAT ATATACTGTT AAATTCATTT GGCTGTTAAC ATTAACCTGA AATTTATTTCT
105301 GGTGCAAAAT GTGAGGCAGG GATCTAAGT GCTCTCATTT TATCCATAGC TAGCTACCCA
105361 CTTTAAATCT GTCAGTCTGT CGACCAAGCA TAATTTAATC CCTTATATAT GAATTTTTTAT
105421 ATGTGTGGCT TTGCTTGTA ATAGTCTATC TGGTTGCATT GCTTTGTCTC CTCTAGGACT
105481 ATGCACCATG ACATGCCACA TTCTTTTTTT CAGTACTTCT TGCCTGTAGT TATTAAAATC
105541 TAGAATTTAC AAGTTTTAAC CATTTTCTTT CTGTTGATCT TGCTTTTCGG TTTTGGAGGT
105601 TGGGGATTGA GTACTGGAAG AAAATTTAGA GGGATGGGAA TACTGTACGC AAACAAAAGT
105661 AATATTTACT TTTAAATTTT TATATTTTGT ATTTTTTTTAT CATATAGCTT TTACATCACA
105721 TTTTACAGAC TAACTTTAGA ACAACCACAG AATGTCCAAC ATTAAAACTA CTAATTCCAA
105781 AGACCTTGCC TCACATTTCT TTTTACAATA AATATTTTTT ACACCTAACA TTCTTTCTTG
105841 GCCTACATCT AGAATGTAAA CTGATGTACC ATACTAAAAT CGCCTGACCA ACTGTCAACA
105901 ACAACAAATC ACACACACAA AAGATCAAAT TTGAATTGCA TCGTTTACTT AAATTCATTT
105961 GTGTTCCAGC TTTTAATAAG GCAGTTTTTG GTTTATAAAG TAATATTTGC ATTTTAAAAA
106021 TTATGAAAAT GAATATGTCA GTTTGTTTTA TGATTGCTTT TTCTTGACTC TTATACAAGC
106081 GACTCTAACT GGCATAGACA TTTGTTATCC ACAGACAGTA TAGATATGTT AGAGATGCCA
106141 ATGGACTTGG TCTATGCCAA GGTGACTACT CACAAGCTCT GGGCCAGCT GAAGGTCAAG
106201 TATTTTTTTT CCAGTTATAG ATGTGCTGGA TCTGATGTAT AGCGCTTGAC TTTTATATAT
106261 TTCTTTATCT GTAGGAAACA AATGTGTTGG AGGTACTGGG TCTGACGAAT AGCATAAAAG
106321 AATAAAGTTA CATTAAGTGC TGAGGATCAG ATGGACAGGG GGTGGTAGCT CAGTCCAGCT
106381 ATTTTCCACT CCTCACTTA CATTTCTTGC CCCCTCCTCA ACAGAACAAAG GATTCTGCTG
106441 TAACCTCTTA TTGACAGTTG ATATTTAAAA ATTAACGAAT GGATGAAATT CTCATTTGTG
106501 AAAGAAAATT TATTGAGCAT TTTGTATTTG TGAGTAGTGC AAACATTTTA ATATTATATT
106561 AAGAATCTAT TGTTTTGTAT TAGAGGAGTA ATTAAGGAGA GATTGGAGAC AAAAAGGGGG
106621 TGTGTTTGC AGAATATACC ATCCAAAAAT AGACCACTGT GGGATCAGGA TTCTTTTGAG
106681 CTAAAGGCAC TTCAAAAACA GCATTCAAGA AGGAATTTCT TCTAACTTT TCTTTCTGAA
106741 AACAGGAGAT AAAAGTTCCA ATGTGAAAAA TGCTCTGCTT GTACCAGGTG AAAAGACATA

```

Figure 2 (Page 33 of 74)

106801	TTCTTCAGCC	CAGAGGCATA	GATGAGATAA	TTCTGCACAA	ACACAGCAGG	GAGTCATAGC
106861	CGAGAGACTT	CTATACACAA	ACAAACCTTG	TAAAAATAAT	CATATATTCC	TTTAATCTCC
106921	TCATATGGTT	TACTTTCCCA	CAATTGCCCTC	TCTTTAACTT	AATGTGAAAG	CATTTAGCTT
106981	TTGCCATTTT	TTTGGGGCTT	CACTTTTTTA	TGAGGGTTCT	CCTGTCCCCT	AAAAATTTACA
107041	TTAAATACAT	TTGTATGCTT	TCATTCTGCT	AATCTGTTTT	ATGGCAAATG	AATTATCAGG
107101	TCCAGCTGGA	GACCCTAACA	GAGTAGAGGT	AAAATTTTGC	CTCCCTACAA	GATAGAGATT
107161	GTGTGCATTA	AATGTTGTTT	GTTCCCAAGT	GTTTCAGTTT	TCAGGCCTCT	GAGCCGAAGC
107221	TAAGCCATCA	TATCCCCTGT	GAACCTGCAG	TATGCCTCTA	GATGGCCTGA	GATGACTGAA
107281	GAAACACAAA	AGAAGTGAAA	ATGCCCTGTT	CCTGCCTTAA	CTGATGACAT	TACCTTGTGA
107341	AATTCTTCTT	CCTGGCTCAT	CCTGACTCAA	AAGCTCCCCC	ACTGAGCACC	TTGTGACCCC
107401	CACCCCTGCC	AGCCAGAGAA	CAACCCCTTT	TGACTGTAAT	TTTCCACTAT	CTACCCAAAT
107461	CTTATAAAAC	GGACCCACCC	CATCTCCCTT	CGCTGACTCT	TTTCGGACTC	AGCCCGCCTG
107521	CACCCAGGTA	GAATAAACAG	CCTTGTTGCT	CACACAAACC	CTGTTTGATG	GTCTCTTCAC
107581	ACGGACGCGC	CTGAAACAGT	TTAACAGGGT	TTTTCCCTGCC	CAGTCACAAC	AAAGTGATGT
107641	TATGCTGCAG	GCTGAAGTTT	ACAGCTAATG	CTGTTGAAGT	CTAAAAATCAG	TTTTGGTTTG
107701	TTAGATTTGG	GTGAGATGGC	TAAGATTCTC	AGAGAAAGAA	GTCAAGTTTG	GGGTGCATTT
107761	TTCAGACTTA	AAAATTTAGC	AGTAGCCCTT	GCAGTTTTTC	CAATAGAAGT	GATTTACGAA
107821	TGTTTTTCAG	AAATTTAAAA	CAACAGTGAG	AAGCGTGTAT	GGAGAGTTGA	ACTACACTCC
107881	AGACTTGGCT	ATAGGAAAGC	ACGAATGCTG	CTATTGTATT	GCACCTTGGG	AAAGAGAACA
107941	AAGGAATATT	TTCGGACAAT	TTTAACATGT	CACATATGAA	AAGCTAAACG	GAATCTGTCA
108001	ACACCTTGTA	CGTTATTACA	GGCTGTGATT	TTAAAAAAC	AATCCTTACT	AATACATACA
108061	TAGTTGCTGC	TAGCAATATA	GTGTTGGGAG	TAAAAACACG	AAAAATGAGAG	TTCAGGACAA
108121	TATCCCAACT	CTGAGCAGAT	TTTTTTAAGT	AGTAACATCT	AAAAATAAAC	CATATTATGT
108181	AATATTTATT	TCTTTTCCAC	AGTCTCTTCT	CATGCCTCGT	TCACATTAGC	TAATTTAAAG
108241	TCCCCTGAGT	ATCATCATAA	CCCGATTTAC	AGATGAAGGC	ACGGTTGCAA	TCAGCTATCA
108301	CCCTCTTCTG	AATGAGACAG	TACAGTGTGA	AGGATAGCAA	AACCTCCACTC	CCATCTCTTT
108361	AGGGCTCTGG	CTGGACCAGC	AAATTTAAAT	AATGTAAAAAT	GGATTAAACAG	GAGAAAAGGTA
108421	TATGCATTTA	TTTAACACAG	GTTTTACGTG	ACACAGGTGC	TCTCATAAAG	TAATGAAAAGC
108481	CCAAAAAAG	CAGTTAGCTA	CTTATATAAT	GAATTGGACA	ATTAGTAAAA	TGTAAAAATG
108541	CGCTAAAGCA	AAGGGATTTA	GGCTAGAATA	TATAACTGTG	TAGAGAAGCG	CCCAGCAAGG
108601	GCTAGTGCAA	GGTTTGTACA	GAATTCCTCT	GGCCTCAGCC	TCCTATCCTT	GAGAAGAATG
108661	TTGCTTTTTT	TAAACTACAG	TGAGAACATC	TTTCATATGA	GAATTTCAAC	TACTGCTTCT
108721	AAGAAACAGG	TCAGCTTTCA	AGAAAACATA	AGGCCAGAGT	GATCTTTTCA	CGCCTGCTCT
108781	TTTAAGTACC	TTTGAATAGT	CAATATGTCT	TCAAGCACTT	GAAAGACTTA	AAAAGTTTAC
108841	CACTCCGGCA	TATTAGTGAA	AGCCCTTAAT	ATAAGCCCTT	ATTAAAAATTC	TCAGTCGAGG
108901	GTATAAATTC	AGATTCAAAT	AGTAGTGTCT	TAAACGGGAG	GGAAAAACTA	AAGGGATTAA
108961	AAAGTGAAAC	TATTGTGTTT	TCCCTCGCAG	TCCTTAGGTC	ACTGCCCTCT	GAGGGGCGGA
109021	GCAAAAAGTG	AGGCAGCAAC	GCCTCCTTAT	CCTCGCTCCC	GCTTTCAGTT	CTCAATAAGG
109081	TCCGATGTTT	GTGTATAAAT	GCTCGTGGCT	TGCTTTCTTT	TCGCGTACCT	GGTTTTTGTG
109141	GTCAGCTGGT	TAGACATGTC	TGGTCGCGGC	AAAGGCGGTA	AAGGTTTGGG	TAAGGGAGGT
109201	GCTAAGCGTC	ACCGAAAAGT	GCTGCGGGAT	AACATCCAAG	GCATCACCAG	ACCGGCCATT
109261	CGGCGCCTTG	CTAGGCGTGG	TGGGGTTAAG	CGAATTTCCG	GTTTGATTTA	TGAGGAGACT
109321	CGTGGCGTTC	TCAAGGTGTT	TCTGGAGAAC	GTGATCCGGG	ACGCCGTGAC	CTACACGGAG
109381	CACGCCAAGC	GCAAGACTGT	CACCTGCCATG	GATGTGGTTT	ACGCGCTCAA	GCGTCAAGGA
109441	CGCACTCTGT	ACGGCTTCGG	CGGTTAATCT	TTTCGTCAGT	TTTCTTCCAA	TGGCCCTTTT
109501	TAGGGCCGCC	CACCTCCCTCT	CAGAAAAGAGC	TGTGATTGTA	TTCTTTTCGGA	TGGTAACATC
109561	TCAATGGCTT	TACTCGGCTA	TTCTGCCTAG	TATGTAGAAC	TATTATAAAC	CAGTTGGGAG
109621	AGACCAGGTT	GTTTGGTCTG	AGTGGCTGCT	AAAGCAGAAA	TCAGCTAAGT	AAACGAGGTC
109681	TCCGAGATAA	GTGAGCTATA	AACCTCAATG	CTATAGTTTT	GACATGTCAA	GCAACTTAAC
109741	GTGCAGCGCG	AGTCCGATAA	ATGAGTAGCT	CAGCTTTTTA	GTTTTAAAAA	CGAGTTGTGC
109801	GTTATTTGTA	CGAGAGCCTA	AGATGCTAGC	TGCCTGGAAC	TGAGTAGGTG	GATTAAAATG
109861	GGTGTCAGGT	CTGTTTTCCT	AGGCGTATCT	GACTTAACGT	CAGCAAAAGC	TGTACTTTTA
109921	GCTTCCCTGG	TAACACCTGC	CGTCCCTAAC	CGCCCCCTGC	CGGTAGCGCC	AGAAGCCTTT
109981	ACTTCCATTT	CTAGTTGAGC	TTGGCGTCCT	GCTGAGTGAC	GTCACCTCCC	CCTTCTGTGG

Figure 2 (Page 34 of 74)

```

110041 AGTAGGACTG GCGGTAAAG CTGCTTTGCT ATTTTCAGTC CTCAGGCTGG AGGCTCCCCT
110101 AAGCAGGCTG CCTACGCAGT TCGTAAATTC CCACTTAGTA GACTAAGGGA GTCTGTTTTA
110161 TAAATAAGGA CTCAAATTTT TTCTGACTCC GAGGTCCGTG GCAGCAGCTA TAAGATGGAA
110221 GCCCCCTCTG ATGTAAGATT CTCAGATGAC TTGCATCTTC ACTGTACCTG TCAACCCAAT
110281 AGTCTTCTAT TCCTGCCTTA AATTGTAAAT TCCAAAACCTG ATTTAATTGT GAAAGTTTCA
110341 AACTGTACGA CCTAGGAAGT GTCAAAGTTA GGTGACCAGA TTTTTAGAAG TCAGCCAAAT
110401 ATTCAGCATC TTTGATTTAG TAACAAATAT ATTGATGGCT ACTTCAGCAA AAAAAATCAA
110461 CTTTGTTTTC TGGTTACTTT GGTGAGAGGT CTGAGCTGGA GATAAAAATG TGTGAGTCAT
110521 CAGTTGAATA AGTGAGTTCG GGTGAGAGGT CTGAGCTGGA GATAAAAATG TGTGAGTCAT
110581 CAGCAGATAA ATAAATGCTG AGACCAGATG AGATGGCTAA AACTGAAAC ATAATGTAGT
110641 GCAGCATTGT TTGTAATAGT AAATGAGTGG CAACTGTAAA GTTTTCATCA GAAAGGACTA
110701 GAGTGATCTA TACATCCATA AAATAGAGTA TTTCTCTACA CAGCCCTACT AAAGAATGAG
110761 AAAGCTGTAC TCCACTACAT ACTCTGGTGT ACTCTGGCTC AGTTCTTTGA CTCTCTTTTT
110821 CTTGGCTAAC TCAACTGGCC TCACCACCTA CATGCTCTGT GCTCTGTCAA ATAGTTTGTG
110881 CAACAGAACA CCACGGCCTA GCTGTAAGTG CCACGTTAAC TTCTAGCAAT GCCAAAGCCT
110941 GTGATAGTGG CAGCTTCGGG CTGTTTCTCA TTCCCGGGAT GCCTAACCAC CTCTCCAAAT
111001 TCTATCAGTT TGCTTCCACC CACTTCAAGC TTCAGAACGA AACATAGAGC TTAAGAAATA
111061 TAGGCCCGGC AAGGTGGCTC ACGCCTGTAA TCCCGGCACT TTGGAAAGCT GAGCCTGGTG
111121 GATCACCTGG GGTGAGGGGT TCGAGACCAG CCTGGCCAAT ATTGTGAAAC CCCGCTCTCTA
111181 CTAAAAAATA AAAAAAATTA GCTGGGCATG GTTGGCGGCG ACTGTAATCC AAGCTACTCG
111241 GGAGGGTGAG ACAGGAGAAT AGCTTGAAC TCGGAGGCAG AAGTTGCAGT GAGTTGAGAT
111301 CGCGCTATTA CACTTAGGCC TGGGAGACAA GAGTGAAACT GTGTCTCTAA ATAAGTGTG
111361 GCAATTATAA ACCATCTCCC TGACCTTAAA TCTCTAGACT CATATACAAC TGCATATTTG
111421 ATGTATCTAA TTGAATAATG GGCATCTCGA ACTTGTCCAA AATATGTTTA TACGTAAACA
111481 CCAAGTCTGT TCTTCTCTG ATATTTGTCA TGTCAATCAA TAGAACTCCA TTCTTCAAGC
111541 AGCTTGGGCC AGGAATTGTG CAATATGTG TGTCTGAGC TTCTTACAAC TTTCACCCAA
111601 TGCAGTCAGC TCTGTTGAAA ATCAATCAGA ATACCTTTCA TTGTTTTCTT TGCTGCTCTT
111661 CTAGGAGCAA GCTGCCATGG CGGTTTGTCT GAATGACCAC AGTGACCCCA AACTGGTCTT
111721 TGTTTTCACT TTTAATCCCC CTGTCATACA GTTTTTCTCT ATCCAGCATC AACAGTGATC
111781 CTTTTTGAAG GTATTATGTC CACTGTCTGC TGAAAAGATT CCACTGGCTT TCCATCACCT
111841 TCATAATAAA AACCAGCATC CTTATCATAG CCTACAAGTA AGATGACCAA CCATTACAGT
111901 TTGCCTGACT CTCAGGGGTT TCTCAGGGTG TAAGACTTAC AGTGCTGAAA CTTAGAAAGT
111961 TCCAAGCAA CTAGGATGAG CTGCTCAACC TACTAGATCT GACTCTGGC TACCTCTGA
112021 CCTCATCTC TTCGCAGTT TTTCTCTTCA CTGACCTTGC TGTTTCTGGA ATGGACCAAG
112081 CATTTCCAGC ATCAGCACCT TTATATCTAT TCTTTCTCCC TAGAAGGGTC TTGTCCTGGA
112141 TATCTGAATG GCTCTAGATC TCATTTCAAT CAAGCCTCTC CTCAAATACC AACCTTAAGA
112201 AAGAGACCTC CCATAATCAT CCCTTGTAAT ATAAGCTTTT CTGCTCATTT AGCATATATA
112261 TATATAGTTG ACTATCCTCA ATAGCATATA TATATAACAT TTCCCCACCT AGAATTATAT
112321 ATGTAATAAT ATATTTAACA AAAAATACAT ATAACAGAT ATATTTTATT TTGTGTTTGT
112381 TCTCTCTCCC CCAACTGGAA TATATTTTTT GAAGGTAGGG ACTTTGTTTT GTCCCAGAAG
112441 TATCCCTAGC ACCTTGAACA GGGCTGACGT TTAACAGGTA GTTTATGGAG GTTTGTTGAA
112501 TGAAAGGATG TGTGAATTTT CTATGTAAGT CTCCAGGCTC TCCACTAAGC CCACCAGAAT
112561 GCTAACACAA TCAATTCCCC ATCTCATTTCC TTGACCTGCC ACTGCCTGAA GCAATCAGCG
112621 TGCAGTTTCT CTTTAGAAAA TCTGGGGGAT AGTCTAGGGG TTGCAAAATTA AGCAACATTA
112681 TCTTTGTTCT GAACAAGGAC TGCATGAGTG TTAGGACTGA AGAAGGCCCA AGGTGGTGGT
112741 GGGTATGCCT AAGATGAGTA TGACATATCA GCAATGCTAT GAACATAGCA ATGCTATGAA
112801 AGGCCAGGCA AAACGTAACA GGAGCTAGTC GTGGCTTATT GTTACAACGA CTATACCTCC
112861 CATATGGGTA ATCGATATCC ACACACCCCT CTACATTGAC TCTGGAATTC AGGAAAGGGA
112921 ATTAAAAATT TCTAACTTAT GTACCCCAAT GATTTCAACA ATATCTGGCA TATGAGATCA
112981 ATAAATATCT TTAATAATACC AACTAAGAAA GACATAAAAT GACCCACCCT CCATACCAGG
113041 CTCATTTTTG CTCTCTGAT TCCTGAAACT ATCCAGAATG CAGCTATGAA TTCTCTCCAT
113101 TGTCAGTTTT AAATTAAGCC AAGCTGGGTA CTTGTGTAAT TCCTCAAGAA ATCCTGGATG
113161 AAAACTGTCA GGTGGAAGAAC AGGACCTCAA AATAAAGAGA CATCCATCAC TGAAGCTAAC
113221 ATCGTGAGGC TGAAATCAGT CCTATAACAA TGGTACCAA AAGAGCACAA TGAGAGGCAT

```

Figure 2 (Page 35 of 74)

113281	TTGTGAATAT	TTACTCAGAT	GAGAGTAAGA	TATTTCCCTA	TCAGCTAACC	TGAAGTTCAC
113341	ATCCCTTTTC	CAGCTGAGTT	CTGAAGCTAG	ATGTACTTAA	CTGGAACACA	TAAGTGCATC
113401	AGGAACATCC	TTTAAACTA	TGGCTACAAT	GGCTTGACTG	GACAAACCCC	AGGCTTCCAG
113461	GTTTAGCACA	GGTGGCCCTT	CACAGACCAA	CATTGCCTAT	GCTACCAACC	TCATGTCCCTA
113521	CCACCCTGCT	TGCATCATTT	CTCTCTCTGC	ATATATAAAA	ATATATGTGT	ATGTATATAA
113581	TCAGCTTTAT	TGATATTTAA	TATACCACAA	AATTTGCCCC	CTTTAGGTAC	AGTTCAATGA
113641	ATTTTACCGT	GTTTTCTTAG	TTGTACAACC	ATCATCACAA	TTTAATTTTCG	GAATATTTCT
113701	ATCACCCAAA	TTTCCATTTT	TGCGTAAAGG	GGGAAAAAAA	AAGGTAACT	GCTGAAGGCC
113761	GCGGTAACAC	TGAAAAAGGT	GCCTTTTCTC	TCTAAAAACAG	ATTTTAATCT	CCCCTGAATT
113821	TAGTGTCCCTG	GGTATTCCAG	GAGTCTGAAT	AGGGTTTCAA	TTTTTCAGGGT	CTTTTAAATA
113881	GAGTAAACT	GTATTGGTGG	CGATAAATTT	AGTATTGCTC	TCAGTACATG	ATTGAGGGAT
113941	ACTTAAATGT	CTCTGTGATT	TTATTTTCATA	ATCGCTAAAA	GATGGTTTTT	TTTTTTCCTA
114001	AAACAGGGTT	TTTGTTTTTT	CTCAATAAGC	TTCTTAGCTT	CCCCTCCGGC	TCCCTGGCTT
114061	GCCTCAGGAA	ATATTAGCTC	ATCAGTTCTG	ATTGGTTGAC	AGCTACGAAT	GGCCCTCATT
114121	GATTGGGCAG	CGCTTCTTTG	TCCCTTGGA	ACTAATACAA	ATTTTAAACA	CTACTTTTTT
114181	TCCACTCTTT	CTTCAGAGTT	GGAATATCGT	TGCTCCCCTA	CCCATATGTA	GTGAGTGGAG
114241	GGCAAACCTG	GAGTTCCCTT	AATCTTTCCT	TTTTAGGATG	TCAGCTCAGT	ATCATTTCATC
114301	TTAATTACAC	ATTGAGCTTC	TTGACTTAAT	GGATACAGCT	CTTCTTTTGT	TTAGTTGGGC
114361	GGCCCTGAAA	AGGGCCTTTG	GTTCAGAAAT	GCAAGCTGTG	GAGAAATCAG	CAACCTTAAC
114421	CGCCAAAGCC	ATAAAGGGTG	CGTCCCTGGC	GCTTAAGCGC	GTAGACCACG	TCCATGGCAG
114481	TGACTGTCTT	GCGCTTGGCG	TGCTCCGTAT	AGGTGACAGC	GTCACGGATC	ACGTTCTCCA
114541	AAAACACCTT	GAGCACCCCG	CGAGTCTCCT	CGTAGATCAG	ACCAGAGATC	CGCTTCACAC
114601	CGCCACGCCG	GGCCAGACGC	CGGATGGCCG	GCTTGGTGAT	GCCCTGGATG	TTGTACACGA
114661	ACACCTTGCG	GTGGCGCTTG	GCACCCCTT	TACCCAAACC	CTTCCCGCCC	TTACCACGTC
114721	CAGACATGAC	TTCCCAAGAA	GTGAACCAAG	AGCAAGTGAG	AGAATAGGAA	ACCGATCTTT
114781	ATATATCTAC	GTTACCCCTG	CCCCACCTC	CAGCGGACAC	AGAGACTGAA	AAGCGCGCAG
114841	GCGGGAAATG	TGACGCCTAC	AGTCCGCTCC	TTTAACCCCT	CCTCCAAGCC	CCAGGAAATG
114901	GCGGGAGCAG	CGATTGGGGG	AGGGTGGGGA	GATGAGGGTG	GGACCAAGCA	GGCTTGACCA
114961	ATGGCCTTTA	TTTTCTTAAC	AGAGCTACAG	GCTTTGAGGA	ACTGGGTAA	GAATTAAATG
115021	TAAACCCATT	CTGACTCCAG	AATTATTTTA	AGTCGAACTT	TTTTTTTTAAC	CGAATCTCTC
115081	TGTCGCCCAG	ACTGGAGTAC	ATTAGAGCCA	TCTCGATTCA	CTGAAACCTC	TGCCTCTCAG
115141	GTTCAAGTGT	TTCTCCTGCC	TCAGCCTTCA	GAGTGATCCT	GGGATTACAA	GCGCTCGCCG
115201	TCGCGCCCGG	CGTGTTTTTG	TATTTTTTCGT	AGAGACGGGA	TTGCGCCATG	TTGGCCAGGC
115261	TGATCCCGAA	CTCCTGATTT	CTGGTAATCC	GCCCGCCTCA	GCCTCTTAAA	GTGCTTGAAT
115321	TACAGGCGTG	AGTCACCGCG	ACCGGCCGAA	ATCGATTGGT	TTTGAAGCCT	TCAGTAGCAT
115381	TAAAACGAAA	AGTGCTCCCA	ATGCATTCCC	TTTTGTCTTA	AATTGGTTTC	TTACAGCTAC
115441	TTTACTTGAA	AAGGTGGTGG	CTCTGAAAAG	AGCCTTTGCT	TGGACCGTCA	GAGAGACCAC
115501	AGTAATCACG	CCCTCTCTCC	GCGGATGCGG	CGGGCGAGCT	GGATGTCCCT	GGGCATGATA
115561	GTGACGCGCT	TGGCGTGGAT	GGCGCACAGG	TTAGTGTCCCT	CAAAATAGCCC	TACCAAGTAG
115621	GCCTCGCACG	CCTCCTGCAG	AGCCATCAC	GCGGAGCTCT	GGAAACGCAG	GTCTGTTTTA
115681	AAGTCTGCG	CAATCTCGCG	CACCAGGCGC	TGGAAAGGTA	GTTTACGAAT	AAGCAGTTCA
115741	GTGGACTTCT	GATAACGGCG	GATCTCGCGC	AGAGCCACGG	TGCCCCGCCG	GTAGCGGTGG
115801	GGCTTTTTCA	CGCCGCCGGT	GGCCGGAGCG	CTTTTGCGGG	CTGCCTTAGT	GGCCAACTGT
115861	TTGCGTGGCG	CCTTGCCACC	AGTAGACTTC	CGAGCAGTTT	GCTTAGTGCG	AGCCATGACG
115921	GAAAAACAGC	ACAGCGGAAC	ACCCAACACT	AGCGCAAATA	CGCCCATGAG	CTGCTCTATT
115981	TATAGTGTGT	AAAGTGCAGT	GATTGGATGA	TAGAAGACGC	TAAATATGAC	GTTACACACT
116041	CTGATTGGTC	TATCTTTAAG	CCAGCAACAA	TCGTGCAGTT	TCACCGGCTA	CTATATTCTA
116101	TTCCAACCTC	ACAGATGATT	ATTTAAGTGG	TATTTTATTA	CTACTATTAT	TTTATTTTAC
116161	TTTTGCTTTG	TTCCCAAGC	TGGTCTTAAA	CTTGGGCTCA	AAAGATCTTC	CCGCTCAGC
116221	ATCCAGAGTA	GCTGGGATTA	CAGGGGAGCC	CCACTGCGCC	GGCTTGGACT	TTAATTTTTT
116281	AAACTTGTCC	TCTTCTACAT	CTGGTTTTCA	TAACCTGAAG	GCTGTGTTTA	TTTTCCATAA
116341	AACAAGGCAT	TGATTCCAAA	GGTATTATAA	TTCCCCAATT	CCGTATAACC	TTTACGCTCT
116401	TAGGAAAAAA	AAAAAAAAAA	AAAAAAGAGG	GAATACTGCT	CACCTCCTCT	CCGGAAATGT
116461	ACCCTTTACG	GGAATTTCTG	AAACCTTTCA	CAAGAATTGG	ATTCTTTTGT	AATGCTTTAA

Figure 2 (Page 36 of 74)

116521	TTGACTTAGG	AGTGTATTG	AAATCTACAA	AGCATCTCAA	ACATAGTAGG	ATTACACTAT
116581	TACTCAGAAA	CATTTTCTAT	GAGACGTCTT	TCTCTTGATT	ATGCTCTTTG	AATCCTAAAC
116641	TTGCAGCGTT	CTGCAGCTTT	TGTTTTCTAA	AGCCTAGGTG	TACTCTGCCA	GTCACAAAAT
116701	GGCGTTTCTC	CAGCACTGCC	GCCAGGTACC	ACCAGCTGGG	AGTTGTTTCT	CTTGCGGAGC
116761	AGGAGGTGGA	CTTGGCCCAA	GAGAACTGG	ATAGTGGTTC	GCAAGGAACA	TAATTTAGCA
116821	TTGCCAAGAG	CTAATGCAAT	CATTTTGAAA	ATCTCAAAAC	ACTGAAAAGT	GGATTGTGAC
116881	CTTTTTAAAT	TCACAAGAGA	CAGGCCACAT	TCTATCTTTT	GATTGGTTTA	GGCTATTTTC
116941	TTGAACAGCC	ATTTAGAAA	CAGATCTATC	ATCCTTCATT	TGCATGGAGC	GTTCCCATTT
117001	TATTTGAAAC	CAGTTTAAAC	CAATAGAAAA	AAGGGAGGCA	GAACCCATTA	TTTAAAGTGG
117061	AAACTCCTGA	ATCAGATAAT	TAGGAGTATT	TCCTTTTCAA	AAGTTGCGTT	TTTTTCAGATA
117121	CCTCGCTTAT	TACACTAAGA	AAGGTTTATA	TCTTTTCAAA	AGGGTTTACT	TACAAAAATC
117181	TTCCAATTTT	GTATACCTGT	GTTTCATAAC	TGACTAGCCG	TCAAAACCAAG	ATGTAGAGTT
117241	TCCAACCGTT	ATTTTCCAAA	TTTTTAGAAA	TTACGTGAAA	TATTTGAATG	CATGCCTTCT
117301	CAATAAAATG	GGACGTAGGA	AGCACTGGTG	CAGAAAGATG	GTACAATACT	TATCTGGGAC
117361	CACTCCATTA	TTTGGTTGGC	ACGTTGTTTG	AAGAAAAAGG	GGAAAAGCTC	AGGTTACTTA
117421	GCATGGTTTC	GACTTATTTG	AAAACCTACCA	CAGCAGGAGC	GGAAATAAGA	CCGCATTACC
117481	TCACTCTCTG	CTGTGCTGTG	CTAGGGGGTT	ATCCAGAATA	GGATTGTAGA	AGTGGATGTC
117541	GATTTAATAG	TTTTTTTATTC	TCCCATTAGC	TGAGTCTCTG	ATTGGCAATG	TGAGATCGTT
117601	TTAGCTTATT	GATACTTTGA	AATGCACCTTA	ACAGCCACAA	ACAAGTTAAA	GGGTTGTTAC
117661	CATAAAATCT	TATCCCCAGG	GTGTGCTTGC	ATTTATCACC	CGTGTTTGCT	TTTACACTAA
117721	GTGGACTTAA	CTCCCCAGCA	GAATGCCTGT	CAGGGAACCG	GTTTCGTGGA	CCCAGCATTT
117781	AACGCCTTTC	GCAGGCTTGT	GAGGCCCATTA	AATATTTGTT	GAATAAAAGA	ATGAGTTGAC
117841	CATGTCATGG	TGCGCTGATT	GCGTGTGCTG	ACATGGAACA	CAGGTTGTAA	ACCTTAATAC
117901	CAATTTGGGG	CATGTTGTAT	GGATGAAAAG	GGCATTGGA	ATTCTGAAG	TGCATCCAC
117961	ATTGGAGTGT	GGAAATAAGT	TGCAAGTGCA	GAAACGTTTC	CACACTTGCA	GTTTGAGTAT
118021	TAATTGCAGC	GTTTTGTAAAT	TCTGGTGTG	TCTACGATT	ATTCTTGTTT	GAGCTGAAAG
118081	GTATTCGCGA	GACACATCGC	TCTAAAACAT	TGCCAGAAAA	TGTAATAGAG	TGTATGACAA
118141	CTGGCCCTAA	CACGGCCTAA	AACTCGCACT	TTTCTCTCCC	TCCGCAACTA	TTCAAAAACAC
118201	TGTATTTTAC	ATTTCTTGCA	AATTAAAAAAC	TAACATCTCT	GGCAACGGAC	CTCTAAAAAT
118261	TTCTAATAAA	ACTCCTCGGA	TGCTTGTGGC	ACTGCATTTG	TAAACCGCCC	CCTCTCAACC
118321	TACTCCCTAA	AAAAGAGCTG	CTTTTTTGAGA	GAGAAGCGGT	ACCCTCTGAT	GTTACTGGGC
118381	GGCAGTCTGC	CTACAATTTT	CTTCACAATG	AGGCAACCAG	AGCGGCTTTT	TCTGTGTGTT
118441	TGCTTGCGTT	GAGGGGAGCA	GGACCATAGG	CCCTAGAGGC	CCCCAGCTGC	CTTCTGAGAC
118501	TGGGCGAAAC	CCTCGGCAGC	GCGCAGGGGG	CGCTAGGGCG	CGAGGGGCGG	GCACTGACGG
118561	GCACCAATCA	CGGCGCAGTC	CCACCTTATA	AATAGGCTGC	GTTGGGGCCT	TTTTTTTCGCA
118621	TCCTGCTTCG	TCAGGTTTAT	ACCACTTTAT	TTGGTGTGCT	GTGTTAGTCA	CCATGTCTGA
118681	AACAGTGCCCT	CCCGCCCCCG	CCGCTTCTGC	TGCTCCTGAG	AAACCTTTAG	CTGGCAAGAA
118741	GGCAAAGAAA	CCTGCTAAGG	CTGCAGCAGC	CTCCAAGAAA	AAACCCGCTG	GCCCTTCCGT
118801	GTCAGAGCTG	ATCGTGCAGG	CTGCTTCCCT	CTCTAAGGAG	CGTGGTGGTG	TGTCGTTGGC
118861	AGCTCTTAAA	AAGGCGCTGG	CGGCCGAGG	CTACGACGTG	GAGAAGAACA	ACAGCCGCAT
118921	TAAGCTGGGG	ATTAAGAGCC	TGGTAAGCAA	GGGAACGTTG	GTGCAGACAA	AGGGTACCGG
118981	AGCCTCGGGT	TCCTTCAAGC	TCAACAAGAA	GGCGTCTCTC	GTGGAACCA	AGCCCCGGCG
119041	CTCAAAGGTG	GCTACAAAAA	CTAAGGCAAC	GGGTGCATCT	AAAAAGCTCA	AAAAGGCCAC
119101	GGGGGCTAGC	AAAAAGAGCG	TCAAGACTCC	GAAAAAGGCT	AAAAAGCCTG	CGGCAACAAG
119161	GAAATCCTCC	AAGAATCCAA	AAAAACCCAA	AACTGTAAAAG	CCCAAGAAAAG	TAGCTAAAAG
119221	CCCTGCTAAA	GCTAAGGCTG	TAAAAACCCAA	GGCGGCCAAG	GCTAGGGTGA	CGAAGCCAAA
119281	GACTGCCAAA	CCCAAGAAAAG	CGGCACCCAA	GAAAAAGTAA	ATTCAAGTTAG	AAGTTTCTTC
119341	TAGTAACCCA	ACGGCTCTTT	TAAGAGCCAC	CTACGCATTT	CAGGAAAAGA	GCTGTAGTAC
119401	ACAGATGAAA	TCCCCCAAGC	AAATGCAACA	CGCCCTCAAT	TATATTAGAA	TCACTTGGAG
119461	AGTCGATAGA	ACTTTAACAT	AGCCTCATCT	AGTAAGAATT	TACTACTCAA	TCTATCAAAG
119521	ATAGCAAGGT	GAATTCAAAT	GCACCGAGTT	AAAATCGAGT	TTTAAAGTCA	CCTGGGTTTC
119581	GGTAGCCGGA	AGTCCCGCGT	CTCACGACTC	CAAGCTAATT	AGTCATAACC	GTATTGAACC
119641	AAGGTTGAAG	CCCAGTCCCA	GGCTTGAGGC	TTTTTATTAT	ACAAGGTTAA	AGTGGGGATA
119701	TTGCGTTTTG	GGGTCAATAT	TGCTAAAGTA	GCATTTTCCG	AAATTGGGGT	GTCCTAAGAA

Figure 2 (Page 37 of 74)

119761 ATGCTTCTGG GATAGTTGGC AAAATATATG GCTTAACCAC GCCCTCTCCA CAGGAGTGGC
119821 TAGCGAGCTG TCTGTCCTTG GGAAGGACGG TGACCCTGCT GGCGTGGCTG GCGCCACGT
119881 TGGCGTCTC TGAAAGCCCC GCCAGGTAGG CCTAGCTCGC TTGCTTTCTG CAGCGCCATC
119941 ATGACAAAGC TTTGAAACGC AAAATGCTTT CTTTGTGCAG CGCCTTACCA TGGGTGCACT
120001 TACGGGCTGT CGACTTGGTT TAGGCCCTTG TCAGGACAAA GGAGCTTAGT TTGTTGGAGT
120061 TTTAGAGCTG CAACCCAAAA TCCCTTGCTC GGTTCCTCTG TTTTATAGAA CGGAAGCGCC
120121 CTGATTGGAT ATTTGAAAAT TACTGTGCTT AACTGGATCG TGTTTCATCA ATCGTGCAGG
120181 ATTTTCAACC CTGGTGGAGC CCACACATTC AAAACTGAAG ATCCTTTTCT CAGAACTGCC
120241 CCTTTAAGCT TTTGCAATTT TAATTCTGGG GGTCAGATTT TAATAATTGG ACTTTTTTGT
120301 TTACATCTGA CAAGAGTATA TGATGAGCCA AGTTTACTCA CTTTACTTTA GTGCAGTTCA
120361 ATTCTAAAAG TTTATTTTTG CGTGTGTGCA TATGAGTTAA TAATCAGTTG TATTTTTTCAA
120421 ACGGTCTTTT TTCAATTGTT TTGCTTAGCT CCTTCCATCG TCTAAAGTCA GGGATACAGG
120481 CACATCACAT CCCTGTTCCC CTTTCCCTCAA ACTAATATGT AGCTACCTAG GTTTATCCTT
120541 TAAAACAAAA ATTCTCACCT ATTTTTGTGA GAAATATACA TGTTTTTCTT TGAACATAAGT
120601 ATTTTACATA CACCTATCTA TATACATGCA TACTTGTGGT TTTGTTTTTTT TAAAAAATAA
120661 AAAAAAAAAA CACGTTATCT TTTGAGACTG GGTCTCAGTC TGTTGCCAG ACTGGACTGC
120721 AGTGGCATAA TCACAGCACA CTGTAACCTC CAACTCCTGG GCTCAGGCTA TCCTGCAGCC
120781 TCAGCATCCG GAGTAGCTGG GATTGCATGC ACGCACCACC AAGCCGGGCT TTTTGTTTTTT
120841 ATTTTTTGTG GAGACAGTCA CACCATGTTG TCCAAGCTGG TCTAGAAATG GCCTCAAGTG
120901 ATCATCGACC TCCCAAAGTG TTGGGATTAC GGTCAGTGTG CCTGGCCTTG TATGCATAAT
120961 TGTTTTGTCT TTTGATTAGG GTTATTAATT TAAAAACAA AGCCTGGACG CAGTGGCTCA
121021 CATCTGTAAT CCCAGCACTT TAGGAAGCCG GATGGGCAGA TTACTTGAGC TCAGGAGTTC
121081 AAGACCAGCC TGGGCAACAT GGTGAAATCC CATCTTGACA AAAATACAA AAAATTAGCA
121141 AGGCCCAGTG GCACGCACTT ATAGTCCCAG CTACTTGGGA GGCTGGGGTG GGAAGATGAC
121201 TGGAACCTGG GAGGTAGAGG CTGCAGTAG CAGAGATCGT GCCACTGCAC TCAAGCCTAG
121261 GTGACAGAAT GAGACCCAGT CTCAAAACAA AAATAATAAA AATTTTTTAC AACGATGTTA
121321 TATACACTTC TGCATGTTGC TTTTCTCTTA ACCAACTTT TCTAAAACCC TGTATGAAA
121381 AAAGAAATCC TTCACATGGA ATAGCATAAG TTATTCATCC ATTTCTTATT GATAAGCATT
121441 GATGTTTCCA GTTACCACTG CTGAACATGG TGCAATTGAA TAGAATTCCA GGGCTGAGAT
121501 TGCTAGGTTT TAGGTTGTAT TTTATTATTT TATTTATTTA TTTATTTATT TAGACAGAGT
121561 CTTACTCTGT CACCCATGGT GGAGTACAGT GCCATGACCT CAGTTGCAAC CTTTGCCTCC
121621 TGAGTTCAAG CGATTCTCAT GCCTCCGGTC TCCCAGTAG CTGGGATTAC AGGCACCTGC
121681 CACCAGGCCCT GGCTAATTTT TGTATTTTTA GGAGAGATGG GGTTTCACCA TGTTGGCCAG
121741 ACTGGTCTCA AACTCCTGGC CTCAAGTGAT CTGGCCACCT CGGCCTCCCG AAGTGCCTGG
121801 ATTACAGGTG TGAGCCATGG CTCCAGACCT GGACTTTGTC TTCTGTTTCA TCAGTCTTTC
121861 TGTTGGTTCA AGCACAGTAT CACACTGAAG ACTGATGATT CTATATAAAT ATGGTAAAGA
121921 CTGTACACCC TAACTGTTCT TATTTTTTAA TTTTAAGGCA ATTTTAGATT CCAGCTTTCC
121981 AAAGAATTGT GGAATGCTTA GAGCTAGAGA AGCCTTGGA GTCATTTAGT TTTTGTTTTG
122041 TCAGAGAAAA TTCTGTAGAG ACTCTGTCCT GCTCTCACTG AATACCATCC CATAGTACCC
122101 CCCAACAGCT TTAAAGGGCA ATAATACCTT ATGGACAGTA TGCTTTTCCT CAAATATATT
122161 CTAAGCCATG GTCAATGCAA AAGAGTGAGA AGGAAAGTAG AATAAGTTAT CTAAGAATCA
122221 GTGGGTGCTC TCTTTAAACT GATTATATC TCCCCCTTCC AAACCTCTCT GAAGGTCACT
122281 CTGCCTCCCT TTCTACATAA GAACTCCTAA CTCCAAGGA GGAAGGTAAG TTATTCTTAT
122341 TCCTTGCTTA GAAAAAGAGA AAATAGGTTT GGTAAGCATC CGCTTTCTGC TACCATTCTC
122401 TGTGTTTCTG TGTTTTTTAT AGGATCATTC AATTATTGGT TGGCTCTTGA GAGGGAATGC
122461 AAGGTTCAAG GACACAAGCC TAGATCTTGC CTGTATAGAA CCTCATGATG TTATGCTTCT
122521 CTAAAATGAG GCCTGGAGGA GACATGTTGA AAGTGACCCA TAAATCTGCA GTATCTCATG
122581 TCTCTCAATG GGGACAAGGA GTACCATGGG AAATAGCATT AGGTCAATGA CAGTAACAAC
122641 TCCAGGTGA GTTGATTTAT TCTTTTATTT ATAAAGTTGT TAATATGCTA CATAGTCCCT
122701 AATTTTGCCA CAAATAGTCA TTATTTTAAT TTCATATTTT ACTATTGATA AATGAAGGAA
122761 AAAATGAGTA GCAGTTAAGC AGTCCATAAA CCTACATATA AAGCAAATTG GAGATTTTAA
122821 AATTGATTCT GGATGCTTAA AATCCTTCTC ATTGAAAAAA AATTTCTGAT TAGAAGATTT
122881 CAACATTCTT TAAACTGAGA AGCATAACAT ATAAACAGAA AACCACAGCA AAACAAAAAT
122941 GCAAAGCTCA ATAAATGAAC ACAAAGTGAA CACCATAATA ATTGCCACAC AAGTAAAAAA

Figure 2 (Page 38 of 74)

123001 ACAGAAAATC AGCCAACCCT CCCAGAGCTG CCTGATGCTT GCTTCCAGTC ACATTATCAC
123061 TCCATCTGCC CTAAACATAA CCCCTATTTT GATTTTCCAAT GCTGTAATTT AGTATGCCTG
123121 TTTTTGAAAC ATATAAAATG GAAATAAAAC AAATGTAATC CTATGTACCT GACATATTTT
123181 ACTCCAGAAC ATTAGGTTTG AATAGATTCA TCTGTGTTGC TGTGTATAAC TTTAATTCAT
123241 TTTTATTGTT ATGTAATATT CCATGTTATG AGTGCAACAA TTTAGGTGTC TACTGTTGAT
123301 GCATATTTGC TTCCCTTTTT CAGCTAATAT AAACAATACC GTGAATATTC CTGTGTATGT
123361 GTCTTGGTAT ATATAGGAAT ACATATTTTG TTTGTATACC TAGGAGAGGA ATTGTTGGGT
123421 CAAATGCTAA ACTCTTTTTG AAAGTGGTGA TATTAGGTTT ACATGCGATG AAATGAAAAT
123481 TAAAACCACA GTTATAAACA GCATGGATGA ACCTCACAAA CCTAATGTTG ATGGAATCTA
123541 GCTGGGAATT CCTGTTCTTC CATATACTTC CCAATATTTT TTTCCAATTA AAATTGTTAA
123601 TCTTTTGAAG ATGTTATCCA TTGTGGCAGA TGTGCAGTAT TATCTCATTG TGGTTTTATT
123661 TTACATCTTT TGCCCATTTT TTCTTAATTG GATTGTATAT CAGTCGACTT GGGCTGCCAT
123721 AACAAAAATA CTAGACTAGG TAGCTTGAAC AAAAGGAATT TATTACCTCA CAGTCTAAA
123781 GGCCAGGCCA GAAATCCTAA ATTGAGGTGC CAAGAGATTC AGTTTCTAGT GAGGGCTCTC
123841 TTATTGACCT GAAGATAGTT GCTGCTTAG ATTGTTTGGT GCTGAACAGA ATACCAGAGA
123901 CCAAATAATT TATAAGAAT ACAGATTTAT TTCTTACAAT TCTGGTGGCT ATAAAGCCTA
123961 TGGTCGAGGG GCCCACCTCT GGCAAGGGCC TTCTTACTGT TATGGCAGAT GTGAGATGTC
124021 ATCTCATATT CAAACCACAG CAGTCGCCTT TTGTGTCCCTC ATGTGGCCTC TTCATATGCC
124081 CATAAAATGA CCTCATGTCT CTTCCTTTTTC TTATAAGGAC ACCAGATCTA TCAGACTACT
124141 GGCCTACTCT TATGACCTCA TTTAACCTTA AATATCTCCA TAAAGTCCCA AAATCCCTAT
124201 CTCCAAATAT AGGCACATTG GGTGTTAGAG TTTCAACATC AATTTTGGGG GAACACAATT
124261 TAGGCCAAAA AGATTGTGTT TTTTCTTGTT GGTTTAAGAT AGCTGTCTTT TTGTCCTTTT
124321 TGTCCTTTCT TTTTTTTTGA GGTGGACTCT TGCTGTGTCA CCCGGGTGG AGTGCAGTGG
124381 CGCTGTCTCA GCTCACTGCA ACCTCCACCT CCTGGGTTC AAGAAATCTC CTCCTCCCAA
124441 GTAGCTGGGA CTACAGGTGC ATACCACCGC GCCCTGCTAA TTTTGTATT TTTGTAGAG
124501 ACGGGGTTTC ACCATGTTGG CTAGGCTGGT CTCAAACCTC TGACCTCAGG TGATCCACCT
124561 GCCTCGGCCT CCCAAATGC TGAGATTACA GGTGTGAGCC ACCAAACCTG GCCTGTCTTT
124621 TCTGTTTTAA GTTTTTAAAT TTTGCTCACG AACCTTTTAT CCATTTTATG TGTGTCAGGT
124681 ATTTCCCTCTG TAACTTGTCT TCACTCTGTC AGAGGCTGGA GTGCAGTGGC ACAATCACAG
124741 CTCACTGCAG CCTCCACCTC CCAGGATCAA GCGATCCTCC CATCTTATCC TCCTTAGTAG
124801 GTGGGACTAC ATGTGCAGGC CACCATGCCC AGCTAATCTT TGTATTTTTT TGTAGAGATG
124861 GTGCTGTTGC CCAAGTTGGT CTCAAACCTC TGAGCTCAAG CAATCCATCA ACCTTGGCCT
124921 CCCAAAGTGT TGGGACTAGA GGTGTGAGCC ACCACTGCAC CCAGCCAATG ATATCTCATG
124981 ATGCATTAAA GTCATTAAAT TAGTGTACTC AAATTAAGCA CACTGCCCTT TTATGCACAA
125041 CCTTTTTTGT ATCTTATTTA AAAATCATT TTCTATTTCA AGGTCATGAA GATCTTATTT
125101 TATAATACCT TCTTGTGAAA TTAGTTCTCA AGACTACCCT CACTTCTAAC ACCAATTATA
125161 AGTTGGGAGG TCTGTGGTTC CCAATCAACC TTAGGTTAGT AATTTGCTAA AAGGACTCAC
125221 AGAACTTGCT GAAGCTGTTA GCCTCATGGT TACAATTTAT TATAGGATAT ATAGCTTATT
125281 ATGTCATTCC AATGCAATGT AAAATTATAC AACTACTTTT AAAAAGATTT TAGCATTGTA
125341 CCCAACAAAT TCACTCTGAG GTATACAAAC AGCAGATATG TGTGCACATA TATACCAAGA
125401 CACATACACA GCAAAATTCA TTGTTTGTA TAGTTGAAAA GGGGAAACAA CTCAAGGAAT
125461 AAAGATTAAA ATCAGCTGAG AAAAGAAACA CACAAGGCAG TATTATGGAT CGAATTGTAT
125521 GCAGATCTCC CTGCCCCCA GAAGATATGT TTAAAGTCCC AACTCCCAGT ACCTCAGAAT
125581 TGTGGCCTTA TTTGGAAATA GGATAGTTGC AGATATAATT AGTTAAGATG AGGTTATAGT
125641 ACAGTATGAT GGGCTGGTGA CTTAGAAGAA GTAGTATATA TATATTTTTT AATAGAACTA
125701 GTATTCTTCT AAGGTGGTCA CGTGAAGACA GACACACACA GGCAGAGACT GCGGTTATGC
125761 AGCTGCAGGT CAAGGAATGT CAAAGGTTGC CAGCAAGTAC GAGAAGCTAG GAAGAGTCAA
125821 GGAAGGATTT TCCTACAGGC TTCAGTGGAA GCATAGATCT AATGATACCT TCATGTCAGA
125881 TTTCTAGCTT CCAGAACTAC AAGAGAATAT ATTTGTTGTT TTAAGCCACC CTAGCTTCTA
125941 GCTCTTTGTT ACAGCAGCCC TAGGAACTA ATATAGGCAC AATCCAGGCA AGTTCCAAAT
126001 ATGAGCTTCC AGTTGTCTTC TCCAGTAAT ATGAACAGTA TTAATTTCCC AGCATTAATG
126061 TGTGACAATA CACATGACGT ACAGAGCAGT CCCCCTTAT GCACAAAACA TATGTTCCAG
126121 GACCTCCAGT GGATGTCTGA AACCATGGAT AGTACTGAAC TCTATATAGC TGTTTTTTCC
126181 TATACAGACA CAGCTATGAT AAGGCTTAAT TTATAAATTA GGCACAGTAA GAGATTAATA

Figure 2 (Page 39 of 74)

126241 ACAATAAATT AGAATAATTG TTAAGAATAT ACTGTATAAA AGTTAGGTGA ATGTTTATTT
126301 CTGAAATTTA CCGTTTATTA TTTTGGGACT GCAGTAGACC ACAGGAAC TAACCATGTA
126361 GAAACCGTAT ACAAGAGAAC TGTATTTTAC CCGAGCCTCA GTGTGCAGTT TTAATGGCCT
126421 GCCATGGTTG ACTGCTCACA TGGCCGATCT TTTAGTCTAC CTCCACAGGT AGAGCTGATA
126481 CTGTGTGGCT CAAAGTTCCT ATTATAAAATC ACATTGTTGA CTGTGTGGTG GTCAAAACCT
126541 CCAGGTAAAC AAAGACACAC TTATCAGTGA GAACATTTCA AGGGTCTAAA ATTCATCTCC
126601 CAGTAGCTGA GGGCAAAGGC TAGACCTCTT TTTGGGTAAG ATAAATTTTT TACCATATAC
126661 TTTATTTTGC TTTTCATGTT TAACTTTATT TTGCTTTTCA TGTTAGTTCC CCTGGAATTG
126721 TTTTTTGTGT ATAGTGTGAA GTAGGGGGTC AAGTTTCTTT TTTTTTCCTT TTTGTTCTTT
126781 TTCTGTTTAA AAGGCTATAC AATTGTCCCA TGCCATTTAT TTACAAGAGT CCTTTCACCA
126841 TTGTTGTATG GTGCCACTTT AGATGTAAAT CAATGTCCAT ATTTGTTTGA GCCTGTTCCA
126901 TTCGTTTGTG TATTTTGGGA CAACACTGCC CTGATTATTG TCATTTTATC AGTTTTGATA
126961 TTTAATAAAG CAACAGATTT GTTTATTTTG GGCCCTTGGA TTTGTGTATT AAATTTGAAC
127021 CCTGTTTGTG AATTTCTATA ATAAAGCTTA TTGGGAATCT GATTAGGATT ACAATGGTTT
127081 TGTAGATCAG TTTGGGGACA ATTAATACCT TTAATAATATT GACCGCTTCA ACTGTAAATA
127141 TACTCCTCCA TTATTTAGTT TTCTGTTTA ATTTATCTGA GTAATACATT ATAGTTTTCT
127201 TCGTAGAAGT CAGATACGTA GAAAATTC AAAGCAAGTG CAATAGCTCA TGTCTGTAAT
127261 ACCAGCACTT TGGGAGGCCG ATGTGGGTGG ATCACCTGAG GTCAGGAGTT TGAGACCAGA
127321 CTGGCCAACA TGGTGAAACC TCATCTCTAG TAAAAATACA AAAATTAGCT GGGTGTGGTG
127381 GCGGGCACCT GTAATCCCAG CTAATCAGGA GACTGAGGCA GGAGAATCGC TTGAACCCAG
127441 GAGGCAGAGG TTGCAGTGAG CCAAGTTTCTT GTCACCTGCAC CCCACCCTGG GCGACAGAGC
127501 GAGACTTCGT CTCAAAAAAA CAAAAAAAAG AACATTCAAA TAATCAATGT AGATAATTCA
127561 AATAACTAAA AAATGAACAG TTATTAAAAAT ATCAGGATAT AAAAGCAAAA AAATCAATAA
127621 CCTCCATATA TACAAAATGG CCAGTTAGAG AAAAAAAAAA GAATAGGCGA GACTTAAAAA
127681 GGCTGGGAAT CTCCCTGAAA ATCTTTGAGA GCCTTGGCCC TGCCCTCAGG GATTTCTCTG
127741 GCTTCATGCC CAGATATGGG TACAGTTCCT TGTTTAAAAA AATTTTGCTC CATCAATCAA
127801 CAAGGGGCTC CTTCCCTCAGA GCACAAGGAT CCCCATAACA CCGGACACTA CATGAGTAAAG
127861 GGACACCTCT TAAGGAAGTT AGACTTCCAA AGAATGGTGT TTCTCTGTG CCCAAACTCT
127921 GGAACTCACA GCACAACCTGC TCCTTGAGGT TCGGTTTCAA ATCTACAAGG CTGTCTATGA
127981 GGTTCAGAC CAAGTCCGTG GCCTCAGTGT CCGGATGTAC GGTGGCCTTG GCACCTGAAT
128041 GTGAGAACAT GACCTCCCTG AAACCACCAC AAGTATTGTT TCATGTTATG TATGTTTTTT
128101 CTTATCTGAA ATTCTTTTTT TTTAAAAAAT CAAATTACAT ATTTTTCAG CCCCTGAACA
128161 AGCTTCATGA GCATTTATTG AACCCACAGC TTTTAAAACC TACTGAACAC TTTGCTCTAT
128221 GTTGTCAATC ACTATCCACC AATTATTTAA TTATTGATCA ATATTGTTTC CTTAGTGTTG
128281 GGATCATTTA TGCATGTATT TCTTTTATAT TGCATATTTT ATATTCTGCT ATTACAGTTA
128341 TTACATATTA CTTTTTGCTAC AGTAATAGTT CAGAAGTGTA CATCCAAAAT TTAGCTGTGA
128401 AGTGGATGGA CTGAGGCAGA ACTGGAGGCA AGAAAATGTC ACAGTAATTC TAAAAAGAT
128461 GATGTACAAT TAGAGCAAGA GAGTAGCACT GAAATTGAAG AAAAATAGAT GCGTTTGAGA
128521 GAAAATTAGG AGGTAGAATC AACAGATTAG ATGTAGGGAT GAGAAGGGTC AAAGATGACA
128581 CTAGGGTTTT TAACCTGGAGC AAGTAGGTAG ACAGAACATT TCTTCTGAA AGGGCAGGTC
128641 AGATCATGTG TTGTCTCAA GGGCATGAAG AGTAGAAAGC CTGGGACAGA TCCTGAGATG
128701 ACCAATACCC ATGGTGCAGG GAGAGGGAGG GAGATCTGCT AAAAAGACTG CAAATGTCAG
128761 GATAGTAGAA AATCATGAGT GTGTGATGTC CTGGAAGTTG AGACAGTATC ACATTTGAGA
128821 ACATTTAAAT TGGTAACCTC GACAAAACCT GGAGGCCAAC TGTGAATGCC CATGAGAGTG
128881 AGAAGCTCCC ACACTTTTGT GGGCATCAGA AAGCCCACCA GGTTCTGCA GTGAAGATCT
128941 GAGAAGGATC CTCTTGTGGC TTTGGCAGGG AGAGAAGAAT TATTATGAAA TACACCCAG
129001 AACCTTCTTC AAAACAAAGG CTTACTCTCA AGGGGAAAAC ATTTTGCCAG AGTCTTATCC
129061 CAGCTGGGAG AAGGTAATTC TTCCCACTGC AGCCTCATCT AGGCTTTCTG TCTCACTTAA
129121 GGGAAGAAAA TTAGTCAACA GGGATCAGAG CTTTATGAAA ATAAATTGGA AATGGTGCAG
129181 CCAGGAAAGG AGCAAAGGTC TGAGGAGGAG GAGAAGGAGG AAGAGGAGTT GTATCATTAT
129241 AAATACTTGA GGAAGAGGAG GAGAAGGAGG AGGAGGAGGA GTTGTATCAT TATAACACT
129301 TGAGGAAGAG GAGGAGGAGA AGGAGGAGGA GGAGTTGTAT CATTATAAAC ACTTGAGGAA
129361 GAGGAGGAGG AGAAGGAGGA GGAGGAGGAG TTGTATCATT ATAAACACTT GTGACGGTCC
129421 CAGCCCCAAG ATATAGGCAT GCTAATAAAC TGAGGCTTAA CACTTTGACT ACAGAATGCT

Figure 2 (Page 40 of 74)

```

129481 GCTTCTCCCT AACACCATCA AGGCTCCAAC TGAATAACAA TGAATTATGA ATGAAAGAGC
129541 TGTAAGGAGA GACAAAAGTT AGAATGAGAC AAGTATTGTT ATCTAGAGAT GCCAAGAAGG
129601 CAAGGAAGAT AACTAAAAAG GCACTCTGGA TTTAGAAATA GGAAGTCATT AGTGACCTTG
129661 TAAATAATGG AGCCAGAGGA ATACCAAGGG CAGAAGCCTC ACTATAGTGT GTTGCACCTG
129721 TCAGAGGTCA GGAGGTGTAA CTGACTCTCC CACAGTGTGG CTTTGAAGA GAGAAGTCAG
129781 CAGCTGCATG GAGATTGGG AGAGGGAAAG CTTTTTTTTT TTTTTTTTAA TTGAAAAGA
129841 CTGAGCTATG TGTAAATAGA ATAAGACAGG AAGAGTGTAG ACACAGGAAA GAGGCAGAC
129901 AAAACAAGT GCACAGTTAT CTAAGGGAAA CAATGGGATC AAGCTGCAAG TATATAAACT
129961 TGTCTTGATA GAAGAATCCT TGATCTGGTT TATTCAGTGT TTGGTCCAAA CCCACATCCC
130021 TGTTCTGCCT GTCTCTGACT TGCTCTGTGC CCCAGAAGCC CAGCTTCTAC AGATAGCATT
130081 AGCTGGGCAG CCCTGCCCTC TTGCAACAGC TGGATTGGC CAGTGATCAG CCCAGCAGGA
130141 ATGTAGATGG CAAAGGAGAG AGAGGTTAGT GTACTTATTC CCTGCATCAC CCCCCTGCTT
130201 GGTGGGCAGC TCTTCTCCA CAGTCCCAGC TCTGGCCTAG CTCTGGTTAC AGGTTCCCTC
130261 CCATTGCCTC TTCAGATTTA AAGGTGTGTC TGTCAGGGTA TAACGGGAG CTAGAAATTG
130321 CACTGAAATT GAACAAAGAA TTTTATGGGA ATGGTTGTTA ACTAGTTATA AGAGGACTGA
130381 AAATGAAAA GTGGAACAAA CGTATCAGAG ATAGTAATGA CAGAAAGCAA CTACCACCTC
130441 CAGGTTTAGG AGAACAAGGA AAAGATTCTT TGAAGAGATC CCCAGAAGTG GGACCTCTGA
130501 GGAGTGTATG CTGGACCACT GATGATGATA TGTCTGTAGA TAGAGGCATG ATGAGGCTGA
130561 TTTTAGGAGC ATGGAAGATC TCCAACTGA AGCCAAGTG TGTACTGGA TTCAACTGCC
130621 ACTGCCAGGT TGAAGAAGCC ATTCTGTGAG GATGTCAACA AACAAAGTGG GAAATCTTTT
130681 CACATCCTTC CAGCCCTCTA GTCTTCTCC AGTGCTTTCT ATTGGTAGGG TTTGGGGAGG
130741 TGGCTAGCAA AGCGGTATTG GAAAAGATAG AAGAGACTAA ATCTTCATAA CCAGCACAGG
130801 GTGACACTGG ATCACTACTG TTGCTGATCT TGGGCTGCCT CATATCCCCT GTTCTTCCCA
130861 TTAGCCCTGT CACAACTTTG TAGATATCCC TTCATTATAT GCCCTTCATA TATTCTTTTG
130921 GTTAACTTT TTCTGTTGGA ATCCTAATAT GGCACCTCTC CATTTTTAGG ACCAAAAGA
130981 GTATAAAGA TTATCTTTTA CCAAAAAAAC GACAAAAAAC TGATCTAATT CCTGATTTGA
131041 TCATTACACA ATCTATACAT GTATCAAAAT ATCACATAGT ACCCCATAAA TATATACAAC
131101 TGTGTCCATT AAAAATAAAA ATTAAGAAA AGATGGTAAA TATAGCTCTG TCAGGCAGTG
131161 GAGGTTTAC CACGATGGCT GTTATTTCCC CCATGAAGGG GGGAGTGAGG GAGCAGCTGA
131221 AAGTAGGTGC TTATAGGGGT ATAGAGGGGC TCAAAGCTTT GAGAGAGGAG AATGTCTGAA
131281 AGAGCTGCCA AATAGCATGC AGGTCCCATG GGGGCAGAGC CTCTGCTCAT TCACCAAGTG
131341 CTCTTCAATA TCTACACTTA AGCCTAACAC AAAGTGTGTG CTTAATAAGT ATTTGCTGAG
131401 TATGTAAAGT GGAAACAGAA CCAATCTGGC AAACCTTGTA GGACTGGTGG GCAATGAAGA
131461 TCAGTCAGGT AAAATCTGTG GATATAAATT TATATTGATC AAAAAATTCA AGGTTAGGTG
131521 TTTTCTTCA GTCATGCTCA ACGATGCTTC AGCCATGCTC AACTCTTCTG TAGCCACAGA
131581 AAAAAGTTTA CCCATAATCG AGCTGTGTCT GTGTCTGAAT AATGAAAAGA CCATGATGCA
131641 AGGGAGTTGG AGACACAGAA ACAGTGTGTTG AAGTAATGGG TAATGGAAGC ATGCTACCAG
131701 GGAAAGGAAA GAAGTGCAA TAGGAAGGAA CAGAGATCTG TGGTCCTATG TCCCCTGAGC
131761 ATATTCACAT GTTAAAGCTA ATTCAGTTTT CAATCATCAT TAAATTTTGT TTCCTAAATA
131821 TATGGCCATT ATTTTCCACA ACCACACTAA AACTTTATTA CCTCTGGCAA GTGACTATGC
131881 AAGTAACATA GAGCAAAAAT ATCCACAAC ACCATTGAG CTATCAATTT AGGGAAGTC
131941 ATCTGGCTAT AATCTAAGTG ACCCTCCACT GAATGTCAGT ATCTTTGCAT ATGTGATTTA
132001 AATCTGGGCC TTCGCAACAC CATGAACTGT TCTTGCTTTG AATATCCAGA TTGAAGGAAA
132061 TAATCTGAGT AGTTACGAGT CCTGAAGCTA GAAAGATGGA AACCCCATTT GCTCATCAGA
132121 AAGCCTTAGA GCTTGGGCGC TGGCGGGTCC TGTCTCACC GACAGAGGG GCTCTTTCCT
132181 CCCCATCTGA TAGTCTGATA ACTAGAGAAG CCGGCCAACT TATTCTCCAA GAAGGAGCCA
132241 TCTTAGTTCC TCCTGAAATG TTCATATTTA GAAATTATTG TTTGTCAGTA ATTTAACCCC
132301 TTAATGGGCT TGCCTTGTGG TCCATACCAC TGAGTGCAGA GCTTGCTTGG AAGAATTGTG
132361 AGGGCCATTC CATCTTCCAG GCAGTAGAGT TCAGTACTTC TTTAAATTTG CTGCTGAAC
132421 CTGTATTTGA AAAGAAAGAA TCATTTGGGT GTGGTAGCTC ACACCTGTAA TCCTAGCGCT
132481 TTGGGAGGCT GAGGTGGGAG GATCATTTGA TGCCAGGAGG ACCACTTGAG ACCACCTGG
132541 GTAACATAGC AAGACCCTGT CTTTAGAAAA AAAAAATACA ATAAAAATAA TACAATAAAA
132601 ATAAAGCAA AAAGAAAGAG TCCATCTTAG GGACAGACTG TAACTACTCA CTGGAGCTTA
132661 CCTTTACATA GTTCAGGATC AATTATAATA AAACACTTTT GTGCAGATTC AATAGGATTA

```

Figure 2 (Page 41 of 74)

132721 TTTTAATCCC CATCATCTCT CTGAGTTTCC AGTCAGTTTC TCTGCATGTA GACACCCCTTC
132781 TCCAGCCCAC CATTGTCTCT CCTCCTATAG CTCCACCAAC AAATCAGAAC TTTTCTAACC
132841 TGCACCTAGT GCACCTAGAG TCTACTCCAG AATGCTCATG GAGAAAAGTTT CTGAAAGGTA
132901 AAACCTCTGAA TGATATTTGT AGCTAAAGGG AGACTTGCTA GAGACAATAA GCTAATAGTT
132961 GTAGACTTCA GTAGAAGAGG AATGACACTG CAATGTCAGG GTGCAGGACT TCAAGAGGGC
133021 AGAGTATGGA AACCCCAATGG GAAAAATGCT CACCAGGAAC ATGAAGAGAA GGAATTACGT
133081 GTAAGGATTT CTCAATGTGT TCCCAAATTT GCCCAGCAGA GGGAGGCCTC GGGTTGATGG
133141 CAGGCTGACC ACACAATTAA AGAAGGCTGA ACCTGGGGGC TTTTAACAAC CATCGTGGGC
133201 TCTACTGTAA GCATTTAGAA AAAGAAAGTT ATCCATTCAA AAATATATAT ATTTTAAAC
133261 TTCAGAACAA AATTATGAAG AGCTATATTT ACTTTTCTAC ATTCTAATTT TTATAAATCT
133321 GAGTATATTT TGCATATATT GTTATAGTAC ATATTCAATT TTGTATTTTG CTGTTTTTAC
133381 TTAACCATTT TTACTAGATT ACTCTGTGTT CATAATAATC ACTTTTTTAA AACTTTTTAT
133441 TTTATTTATT TATTTTTTTT TTGAGTCAGA GTCACACTCT GTCGCCCAGG CTGGAGTGCA
133501 GTGGCGTGAT CTTGGCTTAC TGCAACTTCC ACCTCCTGGA TTCAAGCAGT TCTCCTGCCT
133561 TAGCCTCCTG AGCAGCTGGG ATTACAGGTG TGCACCACCA AGCCCGGCTA ATTTTGTAT
133621 TTTTAGTAAA GACGGGGTTT CACCATGTTG GTCAGGCTGG TCTCCAACCTC CTGACCTCAT
133681 GATCTGCCCC CTTGGCCTC CCAAAGTGCT GGGATAATCA CTTTTTATGC TGCATAATTC
133741 TTCAGATTTG TCAGTACGAC TGTATTTACA CTCATTTGTT TTATTAGAAA GAATTCCAGA
133801 ATATTTTGGC TGCCCTAATT AATTTTACAA TTAATATGAT TTTGAAATTG GGTATTGGCT
133861 CCTTCTGAAT TGGTTTATTA AAATATATTC TAATGTAATT TATGACATTT TCATCATATT
133921 AGCATATTTA TTCTGTTAGA ATTTTATAAT TTATAAAGCT ACAAACGTGA TGTGATATAG
133981 CTTGTAACCT TATCTCATAA CTTTATGCAG TTACAAGTAG AAATAAAATG TTCCCTCAA
134041 GATTGCTTAA AATTTTATTA TAAACAAGTG TAAAAACAA AATCACTAAA ACACCTCCCTC
134101 TTTTTTCCCC CAAAATGCAT GTTTCCATTT TAACAGAACC CGTATTTAAT CAGCAGATTT
134161 CTATGGTGGC TAGATTTGTA GACTAAATAT TAAAAGTCCC AAAGCAAATG CATTTTTTCTC
134221 TTAAATTTTA CTGACTTTTT TTTTCTGAGA TTTTCTGAGA CGGAGTCTTG CTCTGTCGCC
134281 CAGGCTGGA TGCAGTGCCA CAATCTCGGC TCACTGCAAC CTCCGCCTCC CGGATTCACG
134341 CCATTCTCCT GCCTCAACCT CCCGAGTAGC TGGGACCACA GGCGCCCGCC ACCACGCCCCA
134401 GCTAATTTTT TGTATTTTTA GTAGAGACAG GGTTCACCG GTTGTAGCCG GATGGTCTCG
134461 ATCTCCTGAC CTCATGATCT GCCACCTCA GCCTCCCAA GTGCTAGGAT CACAGGCATG
134521 AGCCACCGCG CCCCCTCTAC TGACTTTTAT CCAAAGAAAA TATAAGAGCT CTTTATCATA
134581 ACGTATGTTT CTTGCTCTTG TTATTAAATA TGACACATTT AGACTTAAAC TGATTTGAAG
134641 GTTTATGACA TTGTTTAAAG TATTACATAA TTAATTCATA AAGATAATGA CTAGTTTGAA
134701 CTACTGACAG CTCACACATC ATCAGTTGAA CAGCAGAAAG CTTATTAAGC TACTTTCTTA
134761 TGTTTCTGTC TCCCAGCTAC TAAAAGAAAC GAAACCTTC CAGGTGTTAA GGCAAACTT
134821 TCCTCCCCCT TTCTTCTATA AATCTGATTC CATGTTAGTG AAATTTCTAC TGATGGCTTT
134881 GGTTCCTCT ATAGTAGAAT AGAGATCCTA TGGCAAAAGT CATGTCTGAC ATGGTAGCAA
134941 ATAGAAATGG GGAAAAGGAA GGTCTGCAAG AGCCAATGTG GGAAATGGGG AGAGGACTGA
135001 CTACAAAAAC CCAGCAGGAA TTCCAGAAGA AAACCTCTCA GGACGGGCAC ATTGGCTCAT
135061 GCCTGTAATC CCAGTACTTT GGGAGGCCGA GGTGGGCAGA TCACTTGAGT CCAGGAGTTT
135121 GAGACCAGCC TGGTCAACAT GGCGAAACCT CATCTCTACA AAAAATAAAA AAATTTGTCA
135181 GGCCTGGTGG CATGCACCTG TAGTCCCAGC TACTCAAGAG ACTTAAGTGG GAGAATCACT
135241 CGAGCCTTGG AGGTGGAGGT TGGTGAGCCG AGATCACGCC ACTGCATTCC AGCCTGGGCG
135301 ACAAAGTGAG ACGCCATCTC AATCAATCAG TCTCCTCGAA AAGCAACATT ATGGAGAGAC
135361 AGGATTCGGT CAAGGCCTGG GGCACACAGG AAAATATTAA GGCAGAAGAG AGTTTCTCTC
135421 CCACACCACA CCGTATCCCA CAGGCACTGC GGATGTGCAT ATGCAAGAGG GGTGATCCT
135481 AAGAATTTAG AGTCACAGAG GAGGAGGCAC CAAGCAGACT GTGGAGAAAG TCATGACCAG
135541 AAAGGGACAG AATGTAAAGC TTCAGCTGAT TATCTGGCCT CAGGGATTCC AGAGGAACTG
135601 GTCCCAATGG TCTCCTGGTG ATGTAGGTTT TTAGGTTTCT TTTACAGGGG TTTTCTGGGA
135661 GATCGTTGAC CCAGTTAGCA TTCAAGCAAC TTCCACCCTG CACTTTTATT CTTTCCCTT
135721 CACCTGCTTA GGTTTTATCT GTCCAGGCAA TAATAATAAA ATTATTGAGC CCTGGACATG
135781 TACCTGTAAA GCTCCTTAAA GATGATGCCT TCTAACTCCT CATTCACAG ATACAAAAAC
135841 ATTACAATAA AATGACTCAT GCAAGACACC CAGGTAGTTT ATAGCAGCTA ATAAAAACAG
135901 AATAACTATA AAATATGGTA AGTTTATAAA AGTTACATTG AGTATACTTT ATAAGAAGCTG

Figure 2 (Page 42 of 74)


```

139201 AGCAATCAGT TCTAGTGTTC TATTTGTACT ACAGAATGGC AATAGTTAAC AGTAATAAAT
139261 AATTTCAAAG AGCTAGAAAA GAGGACATTG AATGTTTCCA ACACAAAGAA ATGAGAAATG
139321 CTTGAAATAA TGGATATTCT AATTAATTAC CCTGATCTGA TCACTATACA CAGTATGTAT
139381 AAAAATAACA CTATGGGCTG GGCGCAGTGG CTCACACCTG TAATCCCAGC ACTTTGGGAG
139441 GCCAAGGTAA GCAGATCACT TGAGGTCAGG AGTTAGAGAC CAGTCTGGCC AACATAGTGA
139501 AACTCCATCC CTACTAAAAA TACAAAAATC AGCCAGGCGT GGTGGCATGT GCCTGTAATC
139561 CCAGCTACTC AGGAGGCTGA GGCAAGAGAA TTGCTTGAAC CCAGGAGGCG GAGGTTGCAG
139621 TGAGCCGAAA TCGCGCCACT GCACTCCAGC CTGGGTAAACA GAGCAAGGCT CTGTTTCAA
139681 AATAAATAAA TACATAAATA AATATTTTTT AAAAAAGAA CATCACTATG CACCCCATAT
139741 ATACATATAA TTATTATGTC AATTTGAAAC ATAATTTTGA AAAATGAAAA AATGAAACAC
139801 AAATATGAAT CAATCCTCTC CAAGTTGATA TACTTAAAAG GAAAAAGTC CGAGGGCTTA
139861 AACTATTCAA TCAAAATTTT ATTAAAAATG TATAGTAATC TGGAAAGTAT TTCAGAATGA
139921 ATTGGTATAA GGTTAGACAC AAAGATCAGT GAAACAAAAT AGAGAACCCA GAAATAGATT
139981 CACACATCTA TGGACAACCTG GTTTTGACAA AGGTGTCAAG GCTATTTAAT AAGTAAAAAA
140041 ATCGTCTTTT CAGTAAATGT TTCTTGAACA AGTAGACATC CGGTGTGGGG GAGAGGAGCA
140101 GGAGCCTTAC CTCAAACCTT ATGCAAAAAT TAACTCAAAA TAGACCATAG ACTTAAATGT
140161 AAAAGCTAAA ATTATAAAAC TTCCTTAAAA AATAGGAGAA AATCATCAAC ACCCTAGGAT
140221 TAGCAAAGAT TTCTTTAAAA CAAAACAACA GGTTTATAGT TTATAAAACA TAAATAACAA
140281 AATGATAAAT TTCATCAAAA GTGAAAATTT GCTTTTCAAA AAACATTATA AAATGAAAAG
140341 CAGGAGGCTG AGGCATGAGA ATCACTGGAA CCCGGGAGCT ACAGGTTGCA GTGAGCCAAG
140401 ATGGTGCCAC TGCCTCCAG CCTGGGTGAC AAAGTGAGAC TCCTCCTAAA AAATAAATAA
140461 ATAAATAAAT AAATAGAAAA GAAAAAGAAA AATCACAGGC TGAGAGAAAA TATTTATAAT
140521 ACATGTATCT GACAAAGGAC TCGCACCTGG AAAATATAAG GAACCTTATA ACTTAGTAAG
140581 ATGACAAGCC AAAACAAAGA GTAAAAGTTT TCAACAGACA TTTCACAAAA GAAAAACATAC
140641 AAATGGCCAG TATGCACATG AAAAGATTTT AAACATCATT AGTTACTAGG GAAATGCAAG
140701 TCAAAACCAC AATGAGATAC TTCACATTCA ACAGAATAGC TAATGTTAAA AGGACTGACA
140761 ATCCCCAGGG TGAGCAAGGG TGTGGAGGAA ACTACTCTCA TATATTGTGA ATGTAAGAGG
140821 ACAATGTTAC AACTACTTTG AAAAAAGTTT GGCTGTTTCT AACATAAAAT TAAACACTTA
140881 TACAGCCAG CAATATTTCT GGGTCAATTT TCCCAGATAA ATGAACACAT GTCCATACTA
140941 TGACATGTAC AAATGTTTCT ACTGGCTTTG TTTCACAATG CTATAAACTG GAAACAACCC
141001 ACGTGTCCAT CAACAGGTGA ATGGGTAAAT AAATTGTAAT ATATCGGCCA GACGCAGTGG
141061 TTCATGCCTG TAATCCCAA ACTTTGGGAG GCCAAGATGT ACGGATCACC TGAGATCAGG
141121 AGTTTGAGAC CAGCCCATCC AACATGGTGA AACCCCATCT CTACTAAAAA ATTAGCTGGG
141181 CATGGTCACG GGCGCCTGTA ATCCCAGCTA CTCGGAAGGC TGAGGCAAGA GAATCACTTG
141241 AACCAGAGAG GCGGAGGTTG CAGTGAGCCA AGACCATGCC ATTGCACTTC AGCCTGGGCA
141301 ACAAGATGGA AACTCCATCT CAAAAAATAA AAAAAATTGC AATATATCTA TATCTTGGA
141361 TATTATAAAG CAATAAAAGG GAATAAACTA CTGATATATA CACAAAATGG ATGAATCTCA
141421 AAAATGTGAA GGAAAATAAA AAATACATAT GATATAAATT CCATTTCATAT GAAATTTTAG
141481 GAATGGGAAA ACTAAGCTGT AATTATGGAA AGTACATCAG TGGCTGCCTG GGGCCAAGAG
141541 GATGGAAGAG GCGGCACAGG TGATACTACA AATGGAAACT ATCTAGGTTG ACGGAAGTGT
141601 TCTGTAACCTT GATTACAGTA GTAACCTGTT GGGTATATAA AACGCATCAA ATTTGTATAAT
141661 TAATACAGGT GTATTTTACT GTGTATAAAT TATTCCTCAA TAAAGTTGAT TTTTCATTAA
141721 ATATATTATT TGCTAAAATG AGGAGAGACA ACTATTATCT TAAAATAGTT AAGCACATAA
141781 AAAATACTAC AATCAACTCA TTATATATGG AAATTAAAGG AGAAAAATAG TGGTATGATT
141841 AATTAAAATA AAAAGAAAAA CTTCTAAATT TTATCTTAGC TCATAGTTGT AAAAGCTGCC
141901 ATCCCTAACC AAGGCCACCC TTGACCCTTT CTCATGTTCC ATCTTTCTGT TTGTTTCATA
141961 GTTTATGTCT CACCAAAATC TATCAGATAA ACGTATTCAT ATGAAGATTT AAATATATTA
142021 CATGTTAAGC CTTAGCGAAT ACTTCAATAT CTAAAGAAGG TACAAACAAA ACAAATCA
142081 ACACCTAGTT ATAAGAGATT ACATACTCTC CAGGGAAGAC CTGAAGACTA GCCCTTTTCT
142141 GGATCCCACT AGCCCTCAT CCCACTCCAA GCCCTCCCCT CCAATCCCAT ATGCACTGGG
142201 CATTCATACA AATAAGACCA TCAGCTCTGG ATATCTGTAC TGATTGATGC TCCTGCTAAC
142261 TACCTGAATG ATTGCGATGT AAGGACAGCA CTGCCTGAAT CCTATTTATC TCTCGCTATG
142321 CCATAGCGGC CTTCCATGCT GATGGCGTGT TTGAGGATCC AGAGGGGTCT TTGGTTGGCA
142381 GGATTGTTTT ATTTCCCCAA GAGGAGAGCC TTGATGCAAA AATAGGTGAA GAAATCAGTA

```

Figure 2 (Page 44 of 74)

142441	CAACAAAACA	GAAAGCCTAG	AAACTACTAT	GAACACAATA	GAGCAGAAGT	AGCCTTAAGA
142501	GTTGGTGGAG	AAAGGATGGT	CTATTCAATT	ACCTGAGCTG	AGAACTGGC	TTTCATATGG
142561	AATAAAAATA	AAATTATAGC	TATACCCCAT	ATCATACACA	AAAGTTTCTA	CATCTAACAA
142621	AGACACAGAT	AGAAAATGTT	TTAAAAATTTT	AGAAGAAAAT	AGTGCAGAAT	TTTAGTGCAG
142681	AATTTCTTAG	ACTAGATGCA	AAAACAAAAA	TGATTAAAGT	GGCCAGGCAC	GGTGGCTTAT
142741	GCCTGTAATC	TCAGCACTCT	GGGAGGCCGA	GGTAGGTGGA	TTAGTGGAGG	TCATGATTTT
142801	GAGACCAGCC	TGGACAACAT	AGTGAAACCC	CATCTCTACT	AAAAACAAA	AATTGGTAGG
142861	GTGTGGTGGC	TCACGCTTTT	AATCCCAGCT	ACTTGGGAGT	CTGAGGCAGG	AGAATCACTT
142921	GAACCTGGGA	GGCAGAGGTT	GCAGTGAGGG	GAGATGGCGC	CACCTGCACTC	CAGCCTGAGC
142981	AACACAGCGA	GACTCTGTCT	CAAAAAATC	TAAAAATAAA	AAGATTATTT	TTAAAAAGACT
143041	ATTTTAAACA	AAAAAATCG	TTTAAATGAT	ATGATACACT	ACATCTAATA	TTTGGGAAAAG
143101	TACTTCTTAA	TACTTTTAAT	AAAAAGAGGC	GC'TGAGAGCA	TACAACCTAT	CCTCAGAAGA
143161	GTGTTTGACC	TCTAGGAGGG	ACGCAAGCGC	GT'TCTTCCTT	CATTTTAACT	GGTCATTTTTC
143221	ATTTATTTCA	GGAACATCTG	AAGTAAACAC	AGTCACACGT	TAACCTTTTAA	AAATCTAGGA
143281	GGTGCGTACG	CATAGTTCCA	TTACTTCAAT	TTTTGTACTT	TTGCATTTTAA	AAATATCACA
143341	GGGAAGCTCG	GTACAGCTTC	AAGGCTAGGA	GGGGTGGCTC	TCTCTTAAGC	CCTGTCCCCG
143401	CCAGCCCCAG	ACCTCTCGTC	CCGCCCCCAT	TGCCCAGTCC	CCACCCTCAC	TTCCCCATTT
143461	CCCCACTCCC	GCGGTCTCTT	AACGCACCTG	TTTTTTCGTCC	AGTGGACTCA	GACCTGTACT
143521	CTTCCACCAG	GATCGGCTCC	TTTCCCGGAG	CTCTCGCTCT	TAGAGGAAAT	TGAGAGAAGC
143581	ATCAGCGGAG	ACCCATCTGT	GGCTCTCCAG	AGGGCGCGGC	ATTCAGACCC	CAGATCCAGC
143641	TGTGAGAACG	GACCCACAGC	TCACACCAGG	CCTGCGGGAG	GCGGCCACC	AGAGGCGCTA
143701	GAAAACAAGC	CTCGCGGGGA	GGCGCGCAGG	GCGACTGCAA	GCTGTAGGGG	GCGCTGGCGC
143761	CCTCACAGGC	CAGGGGCAGG	GCCGGCGCTG	CGGGCGGGGC	TCCTGCGGCG	TGAGGGGCGG
143821	CCCCAGGCCA	GCAGCTGCGC	CCTGGCTGGG	AGCCGGGGAG	CATTTGCTGC	TCTGCTGGAC
143881	CCTGAGTCTG	GCGGCGGGCG	GCCTCCTCTC	CGCTCCCCGC	CCGCCATCCC	CCAAC'TCCCG
143941	ATCTCTCTGC	TGCGTCTGGC	CTCAGGCTGA	GACCCCAACG	AATCATTCCC	CGCATGGGAA
144001	CATTTTATGA	TATAACTGAA	TTCAAGTTTTA	TGTATAACTG	AATTACGGAT	ATGAGAATCT
144061	CAAATGAGGA	CGAATGGTTT	TTACGCACAA	AACATGAGAC	ACAAATCTGT	AAGAAAATATA
144121	AAGTCGTGAC	CACGTCTCTT	CAGAAC'TTTA	ACCTGTTTGC	TGAAGTACGT	CAGTAACAAT
144181	GGCAGGGAAA	GGGTATCTTA	AA'TTTCACCA	CAGCCTCAAA	GAGGCCATTT	CGTGGATCCG
144241	CTGAGGCTTG	GAGTCGGCCT	TCTGACCACG	AGTCCTGCGG	CTATGAAAGA	GGAAGCCGCG
144301	GTTCAGGGCG	TCCTCGCGAG	TCGCGCAGCC	CGCCCTGCTC	CAGCTGGGGA	CACAGGTGGT
144361	CACGGCGCTT	TCCAGCTGCA	GATCCAGGCG	GCAGCCCAAG	ATTTGGTCCA	GCCGCCAAGG
144421	GGTGGCTCGA	GTGACTGACG	GGCCTTGAAC	GCTCCCAGGA	CCCACATCTG	GAGAGGGAGG
144481	TGGGGGTGGG	GTGCTGAAGT	CATTCTTGGG	GCCCCCTGGG	GCGGGCATGG	ACCTGGGTAA
144541	GGCCAGAGAA	ATTGACACCT	CGTGACATCC	CTGGAAGAGA	AGTACGTTCA	GTGTCACTCC
144601	AGAGCTGAAA	GATACCGCCT	TCTGGCTGGT	CCCTCCTCAC	CTACATACTT	TTCTAATTTG
144661	TCTGGAGCAG	GCCGGGCATC	TGTATTATCT	GGTTATTTAA	ATATCTGGTT	ATTTAAAAGC
144721	TCTCCATTAA	ATTCACATAC	ACGAAAATAA	AAATTAAAAA	AAATTTTAAA	AAAAAGAAAC
144781	AAAAGCTCTC	TAATGACCAA	GTCTACACG	ATAGTGAATA	AAATTTTTTTG	TGTGGTCCCT
144841	AAAATTGAGT	TCATGCCTTT	TCTGAAGTAA	TAGACGCCCA	GAGAAGGGAT	CGACTTACCC
144901	ATCATGCCAC	AGAGATTAAT	TGGCCCCAGA	ATTCTTTAGC	AGACCGTGTA	TATGAACGTC
144961	CTTTGCAATC	ATATAAATTA	ACTGGGAAAA	CCTCATTTAG	TATGTTACAT	GCCTAGCGTT
145021	TTGTGCCTGA	ACACCTTACA	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA
145081	GGAAGGCCCA	GACAAATGGT	GTCACTGGTC	CAC'TTTCACC	CAGTTGGTAA	ATGAAACCAG
145141	AAATTATAGC	TGTACCACAG	AAAGGTGAAA	ACGTTTCTTT	TATAATTTCA	CATACAATCT
145201	TTAATGGACC	CAGTGTCCAA	CACATTAAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA
145261	AAAATAGTCC	TGTCTCAGG	GAGTTTAGGT	CTTGGAGAAA	AGAGACCCAA	GGAGACACAA
145321	GACAAAGGGG	AAAGAGAAGG	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAGTGA
145381	GGATGGGGAC	ACCCGATGCC	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA
145441	TTCTCTATCA	GAAAAACAGA	ATTACTCTCC	TAACCAGAAA	AGGTATTTCA	ATTTATATTT
145501	TCCATCACAG	CAC'TTTCTG	GTGATAATTT	AATGTGTTTT	AAAAAATGTA	TCACAGTGAT
145561	GGCCTGGTGT	GAAATAAATA	ATAAAATTTT	AAGAATTAAA	AAATATAAAA	ATCTTTTATA
145621	TAGACATTAG	GAGTTACAAG	GATAACTGTG	AATTATAATT	AGTAATTAAA	TTGAAATACT

Figure 2 (Page 45 of 74)

145681	GATTATTTTC	ATTTTTATTT	AATTATTTAA	TAAAACCTAT	TTAACATTTA	ATATTTATCA
145741	GTAATTAAAT	CTAATTGTTA	ATATTTATTA	TTATAAAATTA	TTTTAGAAAT	AAAAATAAGT
145801	GTAGAAGCGA	GGCATGGTGG	CTCAAGCCTG	TAATCCCAAC	ACTTTGGGAG	GCTAAGGTGG
145861	GAGGATTGCT	TGAGCCCAGT	AGTTCAAGAC	CAGCCTGGGC	AACATGGAGA	AACCCTGTCT
145921	CAATACAAAA	AAATGAGCCA	TGTGTGGTGG	TGCGTGCCTG	TATTTCCAGC	CATTCTGGAG
145981	GCTGAGGTGG	GAGGATGACT	TGAGCCTAGG	CAGTCAAGGC	TGCAGTGAGC	CCTGATCTTG
146041	CCACTGCAC	CCAGTCTGGG	CAACAGAGCA	AGACCCTGTG	TCAATATACA	TATGGACAAA
146101	CTTAAAAATTT	AAAAATGAAAG	CATACACTAG	ATACAGAATT	GAGTAGAGAT	GCAAAGCTAG
146161	TCCTATAACC	AGAACAATAA	AGATAAAAAAG	GAGAGTGGA	GAAGGTATGT	CATGAATTTT
146221	ATGATAAATG	GCAATTGCAA	ATATCCTGTA	GCAGAACAAA	ACAACAAAAT	TGTAGATAAA
146281	ACATATCCAA	CCCTTTGGAA	GGCCAAAGGAG	GGAGGATTGT	TTGAGCCCAG	AAGTTGGAGA
146341	CCAGCCTGGG	CAACATAGTG	AGACCCTGTA	TCTAAAAAGG	AAGAAAAGAA	AAAAAAAAAA
146401	AGGATGATAA	AGTAGACAAT	ATTGAAAGCC	ATTTTCTGCA	AATACATAGT	GAATTTGATC
146461	AGTAATTTTC	TTCCAACAGT	GCAAAAAATGA	ATAGATATTA	GTTGCCTGAA	ATAAAAAATCA
146521	AATATCCAAC	AAAAAATATT	GACTATCTAA	TAGTATCTAA	GCTAGTAAAT	TTGGCCAGTT
146581	ATAAAATGTC	TTAAATTTTT	ATTTAAAAAA	AGAAAACCAT	ATTTATAAGA	AGAGGTGATA
146641	AAGAGAAATT	ATTTTCAGTTA	TGAAGATTTT	GTTAGAAAAC	TATGAGAAAA	AAACTATTTT
146701	TTGTTTTC	AAAGTGAAAG	ATTAAGTTAC	CAAACAGTTG	CTAAAGAATA	CCAGATGGCT
146761	GAGCGTGGTG	ACTTATGCCT	GTAATCCCAG	TACTTTGGAA	GGCCAAGGCA	GGAGGATCAT
146821	TTTAGGCCCTG	GAGTTCGAGA	CCAGCCTGGG	CACTGTAGCA	AGACCCGTCT	CTATTAAAAA
146881	AAAAAAAAAA	AAAAAAAAAAG	AATACCAGAC	CTTGCTAACA	ATAGCAAAGA	TCAATTAATT
146941	CAAAATTTGA	AAAACGTAA	TTTATTTAGC	TTTAGAGTAC	TCTCGTGATA	TGAGATTGCC
147001	AAATTAATAC	TTTGGGTGCA	TTTCTTTTCT	CAAAGGACTT	GCAAATTTAC	AAAGAAGTGT
147061	TGAAGAAAAG	CCACACATTG	GCAGGTAATG	TTTGCAAAAG	ACAGATCTGA	TGAAGAACAA
147121	TATTTTTAGA	ATATACAAAG	AATACTTAA	ACTCAACAGT	AAGAAAATAA	CCTGATTTAA
147181	AGCAGGCCAA	TGACCTGAAC	ATCTGTTTAC	CAAAGAAGAT	ACACAGATGC	AAGTATGCAT
147241	ATGAAAAGAT	GCTTGACATC	ATGTCATTAG	GGAAGTGCAA	ATTAAAAACA	GTTAGATACCA
147301	CTGCATACCT	AGTAGAATGA	CCAAAAATTTA	GAACACTGTC	AGCACCAAAG	GTTGCAAAGA
147361	TATGTAGCAA	TAGTAACTTG	TTCATTACTG	GTGAGAATGC	AAAATGTGCA	ATCACTTTGG
147421	AAGACAGTTT	GGTGGTTTCT	TACAAAAGTA	ACCATACTTT	TACCATAAGA	TTCACCAATC
147481	ACACTCCTTA	GTATTTATCC	AAAGGAATTG	AAAACCTATC	TCCACACAAA	AACCTGCACA
147541	TAGATGTTTA	TAGCAGCTTT	ATTCATAATT	TATCCAAAAC	TTGGAAACAA	GATGTCTTTC
147601	AGTAGGTAAG	TGGATAACTG	TGGTACTTCT	GAATAATGGA	ATGTTATTTA	GAGTTAAAAA
147661	GAAATGCATT	CACTTTGGGA	GGCCGAAGTG	GGTGGATTGC	TTGAGGCCAG	GAGTTTGAGA
147721	CCAGCCTGGT	CAACATGGGA	AAACCCCAAT	TAGCCGGGCA	TAGTGGCGTG	AGCCTGTAAT
147781	CCCAGCTACT	CGGGAGGCTG	AGATATGAGA	ATCGTTTGAA	CCTGGGAGAT	GGAGGTTGCA
147841	GTGAGCCAGT	GCCACTGCAC	TTCAGCCTGG	GCAACAGAGC	AAGACTCCTC	TGTCTCAAAA
147901	AAAAAAAAAA	AAAAAAAAAAG	AGAAAAGAAA	AAAGAAAAG	AAAAAGAAA	AAAAAGAAA
147961	GAAACGATCA	AGCCATGAAA	ACACATGAAG	GAAACTTAAA	TGTATGTTAC	TAAAAAGCCA
148021	ACCTGAAAAG	ACTGCATACT	ATATGACTCC	AACTGATGCA	GGGCAAGCAA	GCCAAAAATT
148081	AGGGCTTAGC	CCGGGAAGAA	TTCAAGGGTG	AAGTGGTGGT	GTTAGCAACT	TTTACTGAAG
148141	CAGCAGTGTA	CAACAGCAGA	ACAGGTACTG	CTCCTTGCTG	AGCAGGGCTA	ACCCATAAGT
148201	AATGTGCCCA	GAGTAGCAGC	TCAGGGGCAG	TTCTGCAGTA	ATATACCTGC	TTTTAGTTAA
148261	GTGCATGTTA	AGGGGGATTA	TGCAGAAATT	TCTAGAAAAA	GAGTGGTAAC	TTCCGGAGTAG
148321	GTACAGAGGA	AAGAAGTCGA	TAATGTCTCTG	TTGTTGCCAT	GGCAACGAAA	AACTGCATAG
148381	GCGTGGTGG	GCGTGTCTTA	TGGAGAGGTG	CTTTAACCTC	GTCCCTGTTT	CGGCTAGTCT
148441	TCAATCTGGT	CCGGAGTAAA	GTCCCTGCCT	CCGGAGTTCA	CTCCTGCTTC	CTGCTTCACA
148501	ACTGTATGAC	ACTCTAGAAA	AGACAGTAAC	TATGGACACA	GTCAAAAGAT	TAGTTGATAG
148561	AAATTGGGTG	ACAGGAAGTG	TTGAAAAGGC	AGAACACAGG	ATTTTTAGGG	CAGTGAAACT
148621	TCTGTGATAC	TATAATGGTG	AATACATGAC	ATTATACATT	TGTCAAAACC	CATAGAAAGC
148681	ACAACACCAA	GAATAAACCC	TAATGTAAAT	TACAGACTTT	CGTTGATAAT	GACGTGTCAA
148741	TGTAAGTTCA	ATTGTAATAA	ATGTACTACT	GTGGTGCTGG	ATGTCTATGG	TGGGGGGACA
148801	TTTTTGCTTC	AATAGTTACA	GTTGAAGTAA	ATGTTTGTGT	TTCCACAAT	GCATATGTAG
148861	AAACTCTCAC	ATTCAATGTG	ATGGTCTTTG	GAGGTGGGCT	CTTTGGGTGA	TAGTTAGGTT

Figure 2 (Page 46 of 74)

148921 TAGTTGAGAT CCTAGCAGAT CGAGTCTTCA TGATGGGCAT GATGGGACTG GTCCCTTATA
148981 AGAAAAGACC AGAAAAGCTAG CTCTCTCTTT GCCATGTGAA GACATAGCAG GAAGGTAGCC
149041 ATCTGCAAGC TAGGAAAGGG CCTTCACAAA GAATCAACTC AGACCTCAGA ACAGTGAGAG
149101 ATAAATTGTC GTTGTTTAAG TCACTCAGGC TGTGGTATTT TGTTTCAGCA GCCCAACCTA
149161 AGACTGTTAA TTGGATTAGA AATTTCTTTT TGGGGATGGT GTGTGGCGGG GGGTGCAGGG
149221 AGTACCTTTG TTAAGCTTTT ATATCAATGA GTTTGTAGGC TTTTCTTTTT TGGTCATTGA
149281 CTAGGACAGT TTAATATGA TGAGTGTGAA GGAGATTGTT GGTCATCTAT TCGATGTCCC
149341 TTCTCTGTTT TTTAATATGA GAACTCCTGA TTTTCAGCCA ACTACCTGG AAAAAAGCT
149401 AATCTTTCTG ACTTCTTAAG TGTGGCCATG TACTAAATTC TGGCTAATGC AAGGCAAGCC
149461 AAAGGTTTTA TGATAGGTTT TAGGACACTA GAGTAAAAGA GAGCTGTTGC ACACATGCTC
149521 TTCACCCTAC TTTTGTGTCC TTTTTTCCAT CCTACAACCT GGGTGTGAG GGGTGGCTGG
149581 GGAACCTTAG TGGCTCTCTT GGATCCCAGG GGTAATTGAG GGGTGGCTGG AAGGAATCTG
149641 TGATTTTCTG GAGTTTCCAT ACACAAACAA GACCTGGATT TTCTGGGCTT CCCAGACTTC
149701 CACATCTAGA CTGCTTTTAA ATGGGAGAGA AATAAACTTG TTTCAGCCAC TGTCATTTTG
149761 GGCTATTTTA TAGAACTTAA TCTAATCTTC AAGGGTACAT GAATTGCTTT TCCTTAAAAA
149821 AAAAATCAGC CATAAAATCA TCTTCTTTTT TCTTTTGTTC CCCACATTAT TTAGTTGGAG
149881 CTCTGTAACT TTTTTTTTTT TTTTTTTTGA GACAAGGTCT TGCTCTGTCA CTTAGGCTGG
149941 AATTCAGTGG CATGACCATG GCTCACTGCA GCCTTGCCCT CCTAGGCTCA AGCAATCCTC
150001 GTCTCAGCCT CCTGAGTAGC TGAAACTAAG GCACATGCCA CCATGCCCAG CTAATTTCTT
150061 TTCTTTTAGA GATGGGAGCC TTGCCCAGGC TAGTCTCAA CTCTAGCCT CAAGTGATCC
150121 TCCCATCTCA GCCTCCCAA GTGACAGGAT TACAGGTGTG AGCCACCATG CCTGGCTGCT
150181 CTGTAAGTGT CTGAATTTCA TTTTGTATTT ATCAGTCTGT TTAGATTTTC TTTCCCTTCT
150241 TGGGTCAAGT AGGCCATTGG TTTCTTTTTA AAGGTTTTCA AATTTATTTG CATCTAATTC
150301 TTCAAATTAC TCTCAAATTT ATTCCAGTAT ATATTCTTTT GTTCCTATTT TCTTCTGTAT
150361 TCTTTATTA AATAGCTAAT GATTTATCTA GCAGGACTTA TATCTTTTCC ATAACTTTCC
150421 TGCACCCCAA TTAATCTCCA ATTTTATATT TCTTCTGGCC TTCTTATAG TTTCCACAGG
150481 TTTATTTTAT TCAATTTTTT AAACTTTTAT TTAATTGTTT ATTTTATTAT CATTCTTTCT
150541 TATTCAGCAA TCTAAGTGCT TAGGGATATA GAATTTCTCT TAAGCAGCAT ATGCTAGGCT
150601 TTAACAATGT TAGGGAGGCC TCCCCTTTCT GGGGAAGACC ACATTACAT TAACACAGGA
150661 CTGTGGGATG CCAAGAGGTA GAGAAGAGCT TATGAATATC CAGATTACAT CTTCACTGAT
150721 CCTGCACAAA GGTGGGGTTC CTCGGTTACC CACTGGGTCC TATTACCCAA GTCTGGGTCA
150781 GCATACCGAG ACTACGGGTA TATAGAACAA GTGCAACTGG CGATAATCCT TCTGTTGGGG
150841 AGAAAAATCT TTTTTTTCTA TTCATCTTAG GTTCTCCATC TGTGGCCCTA TCAAGTAGAC
150901 TAACAAAAGA CAGATTGACA AGACAGAAAC AAAGCATGTG CATTGTACAA ACACAGGGGA
150961 GTACTGAGAT GAATACTCAA AAGAGGATTT AGAACTTGGG CTTATATAGC ATTTTAAGAA
151021 AAGAATACAT TTTTAAAGTG ACAAGGAAGA CGAAAAGGAC TTTGAGTTTC TAGTGCAGTA
151081 AATTGTGGGA AGGCAACTTT TTCTTTCCCT TTTTTTTTTT TTTTTTTTTT AAAAAAGAC
151141 TTCTCTGGTG CTATGTCCAG GCTGATAAGA GTCTAAAGTC TCTGGTGAAT AACTTTTGTT
151201 CTCCCCGAG TAAGAAGACA CCTTCACAA TTCATATCCT GCTTTTAGGC AAACAGGGAG
151261 AGGGCAGAGG TGTTTGTTTG TTTTAAATCT ATTTTTTTTTC TCAATTGTCT TCAACTCAAA
151321 ATACTTCTTA TGCCAAAGAT GGCATATTCT GCTACCCCTC ACTTACTACT TACAACCCAG
151381 CCTCTATCAT CATAATTAGA ACTTCTGACC CTGGGGAACA TGGGCAATAG TTTGAACTCT
151441 TTTATATCTC CTTAGGCAG AGATGGAGG CCAGCCATGC CTCTGACATC TAGACACAAC
151501 TGTGCTTCA TTTCTCCTAT TCTCAGAGGT GATGTTGTAG GACTTCAACA AATATCAGTA
151561 AACATTAATT TTTTTTTTCC TTGAGGCACA GCATGATCTT GGCTTACTGC AGCTGTGCA
151621 GGCTCAAGCA ATTCTCCTGC CTGGCCCTCA CGAGTAGCTG GGTACAGGC CCCTACCACC
151681 ATGCCCCGCT AATTTTGTGA TTTTGTAGTAG AGACAGGGTT TCACCATGTT GGCCAGGCTG
151741 GTGTTGAACCT CCTGACCTCA AGTGATCCAC CTGCCCTCAGC CTCACATAGT TCTGGGATTA
151801 CAGGCGTGAG CCACCATGCC TGGCCATCAA TTTTATGTC AACTCTAAAT TATAACATTT
151861 AGCAATTTTG TGACTTTTTA TGGTCATCAT TAATGTTGTT TATGTTTTAG TTGTAGTCTT
151921 GTCATTACTC ACTCGGGTAT GGTAATTTGG TCTTTTCAA AATGAAGTTA AGGTCTATTT
151981 GCTCTTCTCT GAATCATAAT AAGAACTGCC AACAGCCATT TCAGCAATAA CTATTTACTG
152041 AGATTTTAAA ATATTTCAAG GTAATTGGTC CTAGCAGACT GGAAAATACC AAATCTTTTT
152101 CCAGAACTGA ATCCCCCATC AAAGTTCAAT TTTACTCATA ATTCCCTTTT CATTTGAAGC

Figure 2 (Page 47 of 74)

```

152161 ATCTCATTTGT AAGCCAGTCT TAACCCTTCT CTCACACTTT GCTTGGCTGT TTCTCAGGTA
152221 GAACTCAGTA AGTCTGGTAG CCTCCAGGAC TGCCGCTTAG ATTATTAAAC AACATGTCAG
152281 TGGTTGGAAG AGTCAATGTT ATTTTGATTT TTCTGTTTTG TTTTGTTTTA AATGCAGTTG
152341 GCGGATAATT GCAGCTTTCT TTCATTCCCT ACATGAGTTC AAATGGCAGC AAACAACTA
152401 GGAGAACGCA GACCTTCTGA CTTGTGGGTA CCCCTACTCA TCACCTGAAG ACCCTTGGAA
152461 ATCAAAGCCC TGACCCATTA AAGACGGATG GAGACAGCAA CATACGATCA TCACTATTAT
152521 CTTGCTTTGC CCCAGTCCAG GTTAACCATC TGTGGTATTT TTAGTTGCTA AGTCCATATA
152581 TTCAACATAA ATCAATTATA TATCCACTAA AATCTCAGCA CTAGTCTAAC TACTAAGGAA
152641 ATGACAGCGA AGAAAACAGA CCAAACGTCT GCCCTTATGG GATTTATATT ATTTTCTCTG
152701 TGCTGGTTAA ACCAAGGAGC TTCTGCTCTT TTCCTTAGTC ACCTGGGGGA GGCAGAAACA
152761 AAGGAGAATA TTGATAAACC TGGAAATAGG GCCGGAGAGT ATCAGAGAAG GAAGCCTTCG
152821 GGAAAGTAAA GATGTGGCAG CCAGTATTCC CGTTATAAAA GGATACAACT CCGGCCTCAT
152881 AGTCCAGAAA AATTCCCACA AGCAGGGGCT GCTCATGCAG ATGAAGGGAA GTTGGGGGAG
152941 AAGTAAGTGC TACATAGCCT TTCTTTTTGC ACAGCCTGAG GGTCCAGAAAT CCAGACTGAG
153001 GCTCTTGCTT CATGCCAGTG CCCCTCTGCA CATTTTCCAT ACAAACCTCT AAATCCCATC
153061 CGGTTCCTTC GCCAACATCC ACTTCAAAGT AACGTCTTCC TGAGGTGAAG CCTTCACAAC
153121 CCAAGACACA GGGGAAGGCA GTAAATCTCC TGGAAGATGT GTCCTGATTC TCCTGGGTGT
153181 ATCCACGAGT CACTTGCTCT CGATCCTCAG AGAGAATTAG TTCGTGATGA GCTGTATCTG
153241 GATCCAGAGT CACACTAACT GCAAAACAAA ACAAACAAA CAAAATAAT TTTGTTGCTG
153301 TGAAGAACAC AGGTTATTTT ATTTTATTTT ATTTTGAGAT GGAGTGTTGC TGTCACCCAG
153361 GCTGGAGTGC ACTGGCACTA TCTCAACTCA CTGCAACCTC CACCTCCTGG ATTCAGGCAA
153421 TTCTCCTGCC TCAGCCTCCG GAGTAACTGC GACTACAGGT GCGCACCACC ACAAGTGGCT
153481 AATTTTTTTA AATTTTCTGT AGAGATGGGG TTTTCGCCATG TTGGCCAGGC TGGTCTCAAA
153541 CTCCTGACCT GAAGTGTTCC ACCCACCTCG GCCTCCCAA GTGCTGGATT ACACAGGTGT
153601 GAGCCACCAT GCCCAGCCAC AAGTTATTTT CAATAAAACC AGCCTGTGTT CAAACCCAAC
153661 TATTGTTTCT TATAAACTGG GTGAGCTTAG GCAAATCATT TAACTTTCTG AGCCTCAGTT
153721 TGTAACTATG AAAGTGGAAA TTACCGTATT TGTTGCAGAG AATGGTGGGT AGGATTGAAT
153781 AAGCTTATGT TTGCTTAATG CTTGGTAAAA TTCCTGGTAC ATGGTAACCA CCTAATAAGT
153841 GGTAGTTGTT GGGGTGATCA GGCCCAACAC CAGGCCGTGG GGGCTACAAA GTCCGGCGGG
153901 GTCAAAGGAA TGAGAAAAGA CAAGTTAAGA GTGCATAAAG TGGGTCCAGG TGCCAGCAGC
153961 TAGATTGGAG GCTGCAAAGG CCCTAAGCTC TGGGAGCCCA CACTATTTAT TGGTGATCAA
154021 ACAAAGAAGC AGGTGGTGAG GACGTGAGGG TAAACAGGTG AGGGCATGAG GACATGGGGG
154081 TAGAAAGGTA GTGGTGCAAT AAGCGTAGCT GTGACAGTTT AGCATTTTCT TTGACACATG
154141 TAGAATATAC TCTGCTGCTT GAGATAGTAG AGGACACGTT TATGAGTGAA AAGCAAGGAA
154201 CCAACAAGTC TGTGCACTTT CCAGAGGCTA TGAGGGGTTT TATGCCCTGA GCCCTGGGTT
154261 CCATCCAAGC CACAAGGGGT TTTATGCCCT AGGCTTAGAT TTGTGGTGCG GCAGGGCAGC
154321 CTTCCACCAT TTGGCACAGA GCTTGGTGTT CCAAAGGCCA CGAGGGGTTT TGGACCCTGG
154381 ACCCCGGACA TCTTCCAAGA CTCTTTTACA TTATGACAGA CAAGCCAGTC CTGCTTCAGC
154441 TCTTCTAACA ACATGTAGTA ATAATGATAT CATCAACATC ATCTTCGTCT TAATTATTCA
154501 AGGATGCCAA GGTACAGAAC TAACCTGTTA ATATGGTTAC CATCCTGTCC AAAGTTCTTC
154561 TCCCATGCAG GACTTCCAGG AATCATGAGA CAGTTGAGCA GAAAGATACC TTTTCCCTTC
154621 TCTACTGAAT AACCACCAAC ATTGAGAATC AGAGAGGGAA AATGACTCAG CTAATGTCTT
154681 AGCTTGTTAT TGGAAGACCC AGGTCTCATG ACACATGCC T AGTCCCATGA CTTTTAATTG
154741 TAAGCTCTTC TCTTTCCCTT CAGATAATGT TCCATAAGCA TTAGTATGAG ATAATAATAC
154801 ACTGAGGACC AATATACATG AAAAATATCA GACTAGAATC AAACAAGACA GAAAAAGAT
154861 CTGATAACCT AAAGTGAGAT ACTGAACAGT ATGCAGTTTT AAAAAATAAA AATGGTAATA
154921 GGATGTTCTA ACAAGAGAGT TAAGAAACCA CTGTGCTACT GAGTTAAATG TTGATCAGTT
154981 GGTCTGTGAC AATTAAGGAA TTCAAGTATT CAGAAACACT TCCTGTGCTG GATGCTCTCT
155041 GTTTGTTCTT CCAAATAATC CCTCACTTTT CCCTGTCTTG CTCTGTGCCC AGGAAGGCTG
155101 ACATGGACAG ATTAACCAGG CTTTCCGCCC TCTGGCTTGG TTCAGCCAAT GGGAAAGCACC
155161 AGAGGAGACC ATAGGGCACA AAGAAGCAGC CTTGGGAGTA TTCAGTACCC CAGTCCCACG
155221 CTATGATTTG GAGGGTCTGC ATTCTCTGCT CTCTGGGCAC ACTCTAGTAT AGTTACAGCT
155281 CCCTACACCT GCCACTTGAG GCCCAGAGGA GGTGATGGCT CTCTAACTGT TCCTAGTTCT
155341 GGGTGCCTTC TGTTCCTTGT GGATTTCCCA ACTCCTCACC TTTGTAAATA CCCTCCTTTT

```

Figure 2 (Page 48 of 74)

155401 TCAAACCTCTA TTCAGTTAGC TTTTATCAGC CTGACTCACA GAAGTTTGGG GTTTC AATTTC
155461 ATATTACCTG AATGACCCAG GAAAACCCAT GTTGAGAAAT TAAAATGTTT ACGGGGTGGT
155521 AATACCACTT AAGAGAAAAA ATATCAATTG GATTTTTTAAA ATTCCACCTA TCTATTGGTG
155581 TGACACATCA AAAAAACAT ATAGAAAGAT TGGAAGCTAA AAGATAGATA ATATAGTCAT
155641 ATACTGTTAT AGTATTATAT CAAAAGATAT TAAGTCAGAG CATTATTAAG AATGGAAGAA
155701 GGGCCAGGTG TGGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGGAGGCCA AGGCAGGCGG
155761 ATCACTTGAA GCCAGGAGTT CAAGACCAGC CTGCCCAACA TGGCAAAACC CTGGCTCTAC
155821 CAAAATACAA ACAATTAGCT GGGCATTTGT GCACATGCCCT GTAATCCCAG CTACTTGGGA
155881 GGCTGAAGCA CAAGAATCAC TTGAACCGGG GAGGCAGAGG TTGCAGTGAG CTGAGATTTT
155941 GCCACTACAC TACAGCCTGG GTGACAGAGA GAGATTCTGT CTCAAAAAAA AAAAAAAGA
156001 AAGAATGAAA GGAGTCACCT AAAAAAGATA ACACAATTTT AAACATAAAT GTACTACATT
156061 ATTAGTGAAT TCATGTTTAG AATTGTGTTA ATATACAAAG CAAAAATTGT AGAATTATAG
156121 GAGAAATGGA CAAATCTACA ATCATCATGG GATGTTTTAA CATCTCTCTT TCCATAATTG
156181 ATAGATCAGG CAGACCAAAA GAAAGAAATA AGGGAAGATA CGGAAGGTCT GAACAATCTA
156241 AGAAGCGCAA TCTCATAGTC AATACATAAA GCTCAGCAAT TGTTTAATAA TAGTAAGCAG
156301 AGAATATGCA GTTTTCTCAG GTATAGATGG AACATGCACT AACTGAGTAA ATACTAGGCA
156361 GAAAACAGTC TGAACAAGTT TCAATAAATC TGTATTACAC AGATCATTTT CTCTAGCCTC
156421 AATATAAGAT TATAAACCAA TAATAAAAAG ATGACTAAAA AGATTCTAAA TATTAGGAAA
156481 TGTAACCTAC TAATAAGTCA TTAGAAGATG TATAGAATGG AACAATAATA AAATGTTATT
156541 TATAAAAATA TACAATGAAG CTAAAGCAGA ATTTTAAGGA AAATTGTAG GCTTTAAATG
156601 CTTATCTTAG AAAAATTAAA AAGCTGAACA TTAATGAGCC AAGCATCTAA TTTAAATTTT
156661 AAAAAGAACA TAGAAAGCCA AATATAATTT TTTAAAAAGA AAAAAATAGAT ATTAAACAAT
156721 ATAACAGTGA AGTTAAAGAA AACAAGAAATG CAATAAAGAG GAAAAACAAA CAAAAAANA
156781 AGTAGCTTCT TTTAAAAGAA ATTTAATAAA ATAGACATAC CTCCAATGAG ATTTATCAAA
156841 GTAAGACAGA AGGCACAAAT GGAATGAATA CAGAACTTT TAAATATTA CAGAACTTTA
156901 TAATAAATCT TATGCTACTA ATAAAAATGA AAGTACTGAT AAAATTATTA CTTCTAGAA
156961 AAAATATTTT TGAGTAAAC TCACTCAAAA AACAAATAAA GCATGGGCAG ACCTAACATT
157021 AAAGAAATGA AATCACTACT TTAAATTTTA CCGACAGATA ATAAAACGTG CATCTTTATC
157081 AAGCAAAAT GGAACCTGTC AGTTTATAG GAAATTTAGA AGTCAAGGCA TGAGTAATGC
157141 CAATCTCATA CCAATCCTA CAAAGAATAG AAAATTATGG CTCCCGCTTA TAGACATAGA
157201 TATAGAATCT CTGCACAAAA TAATATAAAT AACAAACCAA ATTTTATATT TGCAACTATA
157261 CATATTATAT GTGTATGTAT TATATATGTT AACATATACA TATATAATAT GTATAGCATA
157321 TGTTCTACAT ATTATATATG TATAGTGTAT GTATTTTACA ATATATAAAT GAAACCCAA
157381 TCTTTAATAT ATTCACTTAG ATTGTCTAT ATGACATATA TAATACATTA CATCAAAAT
157441 GTGTACAATA ATCAGGCCAG GCACAGTGAC TCATGCCTGT AATCCCAGCA CGTTGGGAGG
157501 CTGAGGCGGG TCAATCACTT GAGTCCAAGA GTTTGAGACC AGCCTGGTCA ATATGGCCAA
157561 ATTCCATCTC TACAAAAAAT ATGAAAAATT ATCCAGGCAT TGTGGTGCAC ACCAATAGTC
157621 CCAGCTACTC GGGAGCTGA GGTGAGAGGA TCACTTAAGC CTGGGAGGTG GAGATTGCAG
157681 TGAGTCGAGA TTGCGCCAGT GCACTCCAGC CTGGGTGGCA AAGGGAGACC CTGTCTCAAA
157741 AAAAAATTAA AAAATTAGCC AGGTATGGTG GCCTGTTCTT GTAGTCCCAG CAACTGGGGA
157801 GGCTGAGGTG AGAAGATCAC TTTAGCTCAG GTGGTGGAGC CATGATCGCA CCACTGTACC
157861 ACTCGGCTTG GGCAACAGAG TGAGAGCCTG TCTCGAAAAA ACAAATATAT ACACACAGTA
157921 ATCAATATAT ATATTATATG TACCAATCAA TGCTTCACTT TTATATATAA TATAGATTAC
157981 ATCTTATTAG ATATATAGTA TTCCTTCTCC ATAGATAGAT AGATACAGAT ATAGACATAG
158041 TATCCTCTAT CCATATTAGA GAGAGGATAC TATATATATC TATAGCATAT AGAGATGCTG
158101 TCTCAAAAAA ATTTAAACAT CAGCCAGATG TGGTGGCCCA TGCTGTAGT CCCAGCTACT
158161 GGGGAGGCTG AAATGAGAGG ATTGCCATTG ATCCTCTCAT TGGTTGAGCC ATAATCGCAC
158221 TACTGCACCA CTCAGCCTGG GAGACAGAGG GAGACCTGAG GTGGAAGGAT ATAGATATAG
158281 ATATATAAAT AAATATGTAT AGAGAGAATA TAATATATGT GTGTATGTGT ATATATATAT
158341 ATTATGAAGA CACTGGGAGA GAATACTATA TATATATGTG TGTGTGTATA TATATATTAT
158401 GAAGACACTG GTGGGATGGT TTCATTACCA ATTGGAACCA GAGTCCAGGT ATGGAGCCAA
158461 CATGCAATGT TGTGTGTGAC TGAGCTGGCA GAGCACTGGT CATAGTTACG GGAAAAGAAG
158521 GTCTCCAATG AGACATACTT AACAAAATAT ATGAACTTGC CATATACGTG GAGAGTTCTG
158581 GTGTGTATAT AGCCTTCTCT CACCAACCTA GCAATTGTCT TCATCATCAT TATAATGCTA

Figure 2 (Page 49 of 74)

158641	TCAGAGCAAA	GATGACAGCT	AAATTTTTTTT	GTCCCTTTCT	TCTTCTTTCT	CTTCCTTCCC
158701	CTCCCCCACC	TCTTCTCTTT	CCTCCTCCTC	CTTCATCTCT	CTTCTTTTTT	TTTTTGAGAT
158761	GGAGTCTTAC	TCTGTCGCTC	AAGCTGGAGT	GCAGTGGCAC	AATCTCAGCT	CACTGCAACC
158821	TCTGCCTTCT	GGGTTC AAGC	AATTTCTGCCT	AAGCCTCCAG	AGTAGCTAGG	ACTGCAAGTG
158881	CACACCACCA	CACCTGGCTA	ATTTTTGTAT	TTT TAGTAGA	GATAGGGTTT	CACAATGCTG
158941	GCCAGGCTGG	TCTCAAAC TC	CTGCCCC TCA	GTGATCCTCC	TGCCCTCGGC	TCCCAATGTG
159001	CTGGGATTAC	AGGCGTAAGC	CAC TGTACCC	GGCCTCCTCC	TTTAATAGAC	AGGGTCTAGC
159061	TCTGTTGCC	AGGCTGGGTA	CAGTGGCGTG	ATCATAGCTT	ACTGCAGCCT	CGAACTCCTG
159121	GGCTCAGGAG	ATCCTCCTGC	CCTAGTCTCC	CCAGTAGCTG	GAAC TACAGG	CATAGCACAC
159181	GGGGCTAATA	AAATTAATTA	GGTGATAAAA	TTCACTGCCC	ACTGATGACT	AAGCTCTTTG
159241	GACATAAAAG	ACACAGACCT	TGAAGGAAAA	TGTGTCTACT	TAATTTTGAA	ACCCTATTTA
159301	TCAAAAAACA	GGATGAAAAT	GCAAAATGCC	ATCCACATGC	CAGAAGATAT	CAGATAAAT
159361	AAGTTCCCAT	AAATCAATAA	GGAAAAGAAC	CCAATAAAAA	TTATTTAAACC	ACAGTAAATC
159421	ATGGGTAAAT	CACAGAGGCC	TGAAGGGCTA	ATGGACATAC	AAAAAGAA TC	TCAATCTCAC
159481	TAGTGAAATC	AGAAAAGCAC	AAATTAAGTA	CACAATTAGG	TACCATTTTA	AATCTGTAAG
159541	ACTGTCAAAA	TCATAAATTA	TATAAGTAAA	GACTCAGGGA	GTTTTGGAGG	AGTGAGAGCT
159601	CTTATATTGC	TTGTGGGGTA	GAATTGGAAC	AATTTCAAGA	TCTGTAGTAT	CTGGTAAAAAT
159661	TATGATATGC	ATCCCTCACA	CCAGCATGTC	ACTCCAAGGT	ATCTCCCTGG	AGGGAACATT
159721	TACGGGACAC	AAGGAAGCAT	GGATAAGAA T	GTT CACAGTA	GTATTGTCTG	CAACAGCAAC
159781	AACAACAAAA	AAACCCAAC T	ACACACAAC T	TCAATGCCCC	GTCCACAAGG	CAATGGATTA
159841	AATAAACTTC	AGGCCGGAGA	TGGTGGTTCA	TGCCCTGTAAT	CCCAACACTT	TAGAAGGCCG
159901	AGGCGAGAGG	ACTGCTTGAG	CCCAGGAGTT	CAAGACCAGC	CTGAACAAAA	TAAAGAGATA
159961	GTGTTTCTAC	AAAAAATTTT	TAAAAAATTA	GCCAGACGTG	GCAGTGCTTG	CCTGTGGTCC
160021	CAGCTACTGG	GGAAGCTGAC	GTGGGAGGAT	TGCTTAAGCC	CAGGAATTTA	AGGCTGCAGG
160081	GAGCCATGAT	GGGGCCATTG	CAC TCCAGCC	TGGGTGACAG	AGTGAGACCC	TGTCTAAAAG
160141	AGATAAGTAA	ATAACAAC TT	TGCATTTTCT	GCCACATTGC	AAAATGGTGA	GAGAGTGGTT
160201	TCTAGACTCT	AGACTCTTTT	TATGATTACC	TTCTAGTTAT	GAGATCCTAC	AACACTCACC
160261	TAACCTCTCT	GTGTCATATT	TCCTCCTCTA	TAAAGCAAAA	ATGCCCCATA	TAGAGAGGAC
160321	TGTGATATAA	AACAAGAACC	AAGAAAAGTA	AAGCTTTTCT	AATCTGTCAC	AGACTAAAGA
160381	GTGCTCAGTA	TATGTGAGTC	ATTATTCCCTG	GTGCTGGTAG	GAGTGTATGT	TACAAC TTTG
160441	AGTCAAGTAA	TATGGTACCA	TATATTAAAG	TTAACAACAA	CCTCGGCAAT	CCCAGTTTGG
160501	GGTATGTTCC	CAAAAGAAAT	GAAAGCACCA	GGATATAAGG	ATGCATGGAC	TAGAAAAGTTA
160561	TTGTAGCAAC	ATTGTAATAA	CTAAGTTCTA	AAAACAGCCT	GAAGCTCCAT	CAGTAGGGAT
160621	ATGGTTACAT	ATATTTATTA	TAT TCTTATG	GAATATTAGA	CATAAAAAGT	AACGAGTAAC
160681	ATAGAAGAGA	CAGTGTATAT	ATGTTACGTT	TGTACAAACT	TAGGGAAAGA	TATAGATCAC
160741	CCTACCTAGA	GAAGTCAGAT	TGGAGAGGGG	TGGGAAAAAC	CTTGAAC TTT	CTCCTTATAT
160801	CCTTTATATT	GTTTGACTGA	TTAAAAATGTA	TTTGTTCGAT	CTGCTTGAAG	GCAATGTAAA
160861	ATAAAATAAA	CATACATTTA	AAAAATAAAA	TAAAAATTTAT	TCCTATCACT	TTTGTAATAA
160921	AGCTGGGCAC	AGTGACTAAC	ACTTGTAATC	CTAGCACTTT	GGGAGGCAGA	GACAGGCAGA
160981	TCACCTGAGG	TCAGGGGTTT	GAGACCAGCC	TGGCCAACAT	TGTGAAAACCC	CATCTCTACT
161041	AAAAATACAA	AAATCAGCCA	GGCATAGTGG	TGCGTACCTG	TAATCCACAG	CTACCCGGGA
161101	GGCTGAGGCG	CTGGAACCCA	GGAGGCAGAG	GCTGCAGTGA	GCTGAGATTG	CGGCACTGCA
161161	AGCCAGCCTG	GGTAACAGCG	AGACTCCATC	TCAAAAAAAA	ATTTGAAAAA	AGAAAAATTT
161221	TAATAAACAG	TGTTTAAGAG	GGGAGAAATA	TTTAGTTAAA	AGATAAGCCC	ATTTAAGAAA
161281	TAGTTTCACT	TGACCCGGAA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCAC	CAGTGCACTC
161341	CAGCCTGGGC	GACAGAGCGA	GACTCTGTCT	CAAAAAAAA	AAAAAAGAAA	GAAAGAAAGA
161401	AAGAAATAGT	TTCACTTGAA	CCATATTATG	ATTCTTTCTG	TAAAAGATGA	GAGTAGGCAA
161461	ATTGACTCAG	TGAAATCCCA	GCAAAACTTA	CACAAAAGTCT	TGTTCTTCCT	TCCTGTCATC
161521	TGTATAGGAT	GAAATACAGA	GTGCTTTTGG	GTTTTGTTGT	TGTTTGTGTT	TGTGTATTTG
161581	AGGGGAACAC	AGGTCTATAA	TTCTTTTCT	GAAATCCCTG	GAACAAAATG	GGCTTTGCCA
161641	TTCAAATTAG	TTTAGAAGTT	ATAAAGGCAA	AAAAATGCAT	ATACTCTAAA	GTTCAACCCC
161701	ATCATGGCCT	AAGGCAGAGC	CCTGTAATCA	AATTCATCAA	TATATCTGCA	GCAAAACATT
161761	TATTCAAATT	AAGTGGGATA	AATAAAGACT	TTTAAATAGT	CTCATCTCAG	TGCCGTT CAG
161821	GGTTGGCCAC	TGTGGAAGAC	AGACTCAAGG	GTGGCCTTCT	ATGATTCTCTG	CCTCTTGGTG

Figure 2 (Page 50 of 74)

```

161881 TTCACACCCCT CGTAAAATTC CTTGTCTTTG AGTGTGAGCA GGGCTTATGA ATTGCTTCTG
161941 ACCAATAGGA TATGGCAAAG ATGATGGGAT ATAATTTCTA TGATTACGTT TCATTATGTA
162001 AGACTCCATC TTGCTGGCAG ATTTTCTCTA AAGAGTCTGT CTCCTGAGCT CTCTCTGAAG
162061 AAATAACTGG CCATGTTAGA AGCCCATGTG CAAAGAGCTG AGGGGTGGCC TGTAGAAGCT
162121 GTGGGCAACC TCCAGCCAAC AGCCAGAAAT AACCAGGGCC AAAGTCCTGC AACCATCAGG
162181 AAAGAAATTC TGCCTGCTAT CTCAGTGAGC TTGGAAGTGG ATTCTTCCTT AGCCTAGCCT
162241 CCAGATAAGA ACACAGCCTG ACCAACACCT TAACTGCAGC CTTATCAGAC CCTAAGCAGC
162301 AGGCCCAACT AAGCTGTGCC CAGATTCCTG AACCACAAAA ATTGAGATAA CATATCAGTG
162361 TTGTATTAAG GTTCTAAATT ATGGTAATTT GTTTGTACTA ATAGATAACT AATATAACCA
162421 CCAAATCATT TCAGGTTAGG CAGGATTTTT GTAGCCAAAT GAATCATGAT AAAACTTTCC
162481 ATTTTCAGGG GTTTTTTTGA TTTTGTACTT ACGGATACAA ATTTGTGAAA GTATAGTCAG
162541 CACTGATTTA AAAAATCAAG GGAGCAGGAA ACTCAGTAAA TGGTTCCTAA ATTTTGGAAAT
162601 CTGTAAATTG GTTGTAACAT TTGTCATCTG TGTATCTTAA GTCAAGTTCC TAAAAATAGT
162661 GAATGATAGG TTATCATACT CACCTACTTT TCTTGCAATTG CTCTAAGAGT TGGCTGAGCT
162721 ATTGATAATA AACACTATGA TCAGATCTAA TACCATGATG TGCTATTATG ATCATGTGTC
162781 AGTCACAGGG CTAAGCACTT TGTACATGTT GATGCATTTA ATTTTGATGA TAACTCAATG
162841 AAGTAGGAGC TGTTAATATT TTCATTTTTT AGAGGGGGAA ACCAAGTCAC TTGGAGTAAC
162901 ATGGCTAATA AGTGAAAGAA TAAGAATTTG AAAGGTTTGC ACAGATAACC AGAATGCAAT
162961 GCTCATCACA TTCACTGAGC AGTGAATCAT ACTAACTAGA GAAAGTATGA AAGCTCTACT
163021 GAAATTAACCT AAACAACCTC TCTGGCTGTG AGCCTGCCAA GGGACAGGTG GTAAACTTGG
163081 TTAAGTCATA AGGCCCCCTT TATCCACAGT ATTCAGGAAT TCTTTAGTGA ACATACCTTG
163141 ATGACTCCTT AACATTTTCT TCACATCGAA GTAAAGCTTG GAAACATTGC ACATAGTATG
163201 AAGTTCCAAG GAGACAGCCT CTGATGTTTC CAGCTTCACA GCCCAACTCC TAGAATAAGC
163261 AGAGGCGAGA GATTTCTTCA GAGGTGCATT CCATTCATTT CTATATACGC ACACCCCTCC
163321 CCTCCTGCAT TCAAACAGGA CTTACCTGCT CAAAGTGTC TACACATCTT ATAAAGAAAC
163381 AAAAAGAAAA GGTGAGCATG GGAACATCGG TATTTTCATG GGCTTGTCAT GCAGGGCTAT
163441 TCTTCTTTGC TTTACCCGAA AAGTAAAGAA GAGTTACCTT AGTCTTAGTC TTAGATATTG
163501 ATGGATACTC AAACAAAGTA ATTCCCACCA GTCTTAGGTA TTGATGGATA CCCAGATGGA
163561 ATAATTCCTA CCAGCTTCTG GGAGATTCAG CATGGCAGGA TGTTTATCAA CATTTGCATC
163621 TATTCTCATC CTTGCTGAAG TCTGAGGGCC AGGAGCTTTG TCCATGCTCC CTCTGTAAGG
163681 ACTAGCTTTT GGTGATCGGA TTTCTTCAC AGTGAGCCCA GATTAGAGAA CACTTATCAT
163741 AAAGGTCCTT AGTGGTGAAT CTGTGCACAG CCCTGAGACT GGGCCACTGC CACTAAGATG
163801 GTGGTAGCAG GTATCACACA GTGGTAAAGC AATCATGCTA TACACTCAGC CTTACAGTAT
163861 AGTCACCAAT CCTGTTAGTT AGAACCAGAA TTAATGGCTC CAGATGTTTA TCTTCCTACA
163921 GATAAAGCTG TAGATTGTAC CATAACAGCT CTGGAGCAAG GGTTCTACAA GCAAAATCAGG
163981 GAAAAGGTTA TCACTCATTT TGGCTGCCCC ACTTCATCAC CCATCAGTCA CCTAGTGGAG
164041 TATTTTCAGGA GAGAGTCAAC AACCAGGGTT CTCTGCACAT GGGCCAAGGA GGCAAACAGT
164101 GGTAATGTTT ATCCCGTGGT TTCATTTGGC CAAGCTGTGT TCCCTCAGAA GTTTATTTTTT
164161 CTAATTGACA TAAAGGTACC CTATAAATTA GTGAAGGCCA GCCTGATGGC ACTGATGTAC
164221 ATCTAAAAGA AACATTACTT TATCTTCCCA TGCTTCCTTA CCATTCTCCT TTAATAGCAC
164281 TATAACATAC CTTTTTTCCC TACTCCAAGT ACACAGCCTC ACCTGCAGCA ATTTCTGGGC
164341 TGAGCCCTGA CATTTTTTCT CCAGTTCAG GATGTGGCTC TTGAGTTTCT TGCTCTTCAG
164401 CCCCAGACCA GCCTCATAGT CCCTCAGTCT ACTCAGAGTC TGTGTGTTCT CTTTCTCCAG
164461 CCTCCAGAGA TAAGACTTCT CTTCCCTCATG TAGGAAACAC TGGAGATTCT TAAAGTCAGA
164521 CCGGATTTTT TGTCTCTGAA TCTGTACCTT CTCCTGGAGT CAAGAAAGTA TGGTCAAAAG
164581 GTGGAAGTAA ACCAAATGTC CATCTATGGA TGAATGGATA AACAAGAATG AAAGTCTGAC
164641 ACACGCTACT ACATGACAAG CTTGAAGAC ATTCAAGCAA AATAAGCCAG AAACAAAAGG
164701 GCAAATATTG TAAGACTTTG CTTATACAAG GCATCTGGAG TAGTTAAGTT CATAGAGACA
164761 GAAAGTAAAA TAGTGGTTAC AAGGTGTTGG CAAGACCAGA AAATGGACAG TTATTGTTTTA
164821 ATGGGTAGTG AGTTTCAGTT TAGAAGATGA AAGATGAAAC TGAGTTGCAG TTTGGAGATG
164881 GGAATGGTGA TGTTTGCACA ACAATGTAAC AATGTAAAAG CACTTAATTC TACTGAACATA
164941 TATACTTAAA AGTGGTTAAA TGCTTAAGTG TTATATATAT TTTCACACAA ACACACACAC
165001 ACACACAATC AGCCACTGGG ACATTATTTT CTCATGAGTC ACTGAAGCTG GAAGAATGTC
165061 CCCAGTTTCC TGCTGCAGAG TCATGTGTGG GAGGCAGGCA CTCAGATGTG GAAGAGGTTG

```

Figure 2 (Page 51 of 74)

165121	CCTCAGATTC	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTCAGCCAAG	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCCT	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT
165241	TATCAGTTAC	AAGGATAAAA	AGAGGTTTTT	ACTTATGATT	TAAGAAAGTA	GATTTCTGAG
165301	TTGGAGCGAT	TTTCTTGAAG	TAAAAGCTTA	TAATGAACAT	CACCCAGACT	GGATTTTAAG
165361	ACAACCAGGC	TGGTAAGAGG	GTCCATAATT	C'TTGGCAGGG	GGAGCTTTGA	GTGTGACAGG
165421	CATTTATTAT	GGTTAACTGA	GAAATACTGT	TCTACTACCC	TAGGGTCATC	TTAAGCATTC
165481	CTATGTGTAA	GACTGACAGA	AATCAAGTGA	AAC'TCTCATC	TGAGGAGATG	TAAAGTTGCA
165541	ATTTCCATTA	GTGCTGTCTA	AATTAATGCA	GTGGGAGTGT	GTATTCAGGG	CAATTTGAAT
165601	CTATGTTCTT	GGATTGCAGT	C'TTCAAAC'TT	GGCCCAAATA	AAC'TCTCTAC	TTATCTTAAA
165661	AAAATAAAAA	TTAAAAAATA	AAAATAAAAT	CATACAGTGT	TTTGATGACT	ATGATATAGA
165721	AGAAGGGTCT	TTGACTTAGG	ATGAGGTGGA	ATTTTTTGTT	AGGAGACAGG	TGCAGCTTTA
165781	ACTCTTGTAT	AGACGGGTTT	TCATATATGT	TAGTTACAAT	CAAGGTCTCT	CCCATTGCCC
165841	AAGATCCTAG	AAATGGGGGA	AGTAAGAGTG	TACTCAGGAG	CTCAAGAGCA	ACATCCACAA
165901	ACAAAGATCA	GGGTAGAGGT	TAGAGAGGAC	TCCTGAAAGA	GAGAAAATTG	GTAATCAGCT
165961	TGTGGGATTT	TACTGCAAGC	TAGTGAATTA	TATAAATATA	AAGATTGGTG	CAAAAAGTAAT
166021	TGTGGTTTTT	GCCTTTACTT	TAATGGCAAA	GACCGCAATT	ACTTTTGCAC	AAACCTAAAT
166081	ATTTCCATAA	AAGAATGTGG	CTCTGATAAT	GTGGAGGTTA	GTCAGCCACG	GAAATAATCT
166141	GAAAGTTTGT	AGTTGCAAGT	GTGTAGGTTG	TTGCATTACT	TGTGATGTAC	TTATAAATCA
166201	AGTATAGGCC	GGGTGCAGTG	GCTCACGCCT	GTAATCCCAG	CACTTTGGGA	GGCTGAGGTG
166261	GGTGAATCAC	GAGGTCAGGA	GATCAAGACC	ATCCTGGCCA	ACATGGTGAA	ACCCCGTCTC
166321	TACTAAAATA	CAAAAAATTA	GCCAGGCATG	GTAGCACATG	CCTGTAATCC	CAGCTACTCA
166381	AGAGGCTGAG	GCAGGGGAAT	TGCTTGAACC	CGGGAGGTGG	ACATTGCACT	GAGCTGAGAT
166441	CGCACCACCT	CAC'TCCAGCA	AGACTCCATC	TCAAAAAATA	GTAATAATTT	AAAAATAAAT
166501	AAATAAATAA	AGTATAT'TTC	T'TTCATCAGC	TTCATGAGCT	TGAGTAGTAT	GAATTTCAAT
166561	CTGGAGTGAT	CCTGTTTTCT	AAGTGTTCAC	AAAGCTTGGT	TTCTGTACCT	GTAAAGTTGA
166621	GAGCCAGATG	CTCCACTGTG	GTAAAAGTGC	CAGGGTAATG	AGTTGAGGCC	TGCAAACCAG
166681	GTTTATTTTG	AGGTATTTAA	AGTTTGAGAC	CCACTCGATG	CTTTTTCTAG	GTAAATAGTC
166741	ATACTAATTC	TGCTTCTTCT	GACTGAAGTA	TCAGGAATCC	CAGCCAACCT	CAGTTTAAAG
166801	ATGGAAAGAT	TGGTGC'TAAA	TACTCATGGA	TGTAAACCTG	GAACCAGGGG	CATAAGTACA
166861	AATAATGGTT	TCTTCC'TTGG	GTTTTCATTTT	TTCAATCTGG	TTTAGTGAGA	ATAAATCCCTC
166921	ATTGTGCTTT	TCCTCAATCA	TCCCTATGCT	CTAAGCTCTA	GAATGGAAAA	TAGCTTGAGA
166981	TCAATGAAGT	CAGAT'TCTTA	C'TTTCATTTT	AGTTATTCGC	ATTGCTGTGG	ACAGCTTCTG
167041	CTCCGTACAT	CTGTCTTCAA	GTTGCTTCAG	TTTTGTCCACA	GCTTTCTGGA	GCTTTTCCTG
167101	AAGGAAAAAT	TTGATAAGTG	AAGCCTATTC	AATTTGACTC	TTCATTAGGG	ACCTAGGGGG
167161	AATCCCAATC	TTCTAAGATA	TATTTGAATA	ATAGTGAATA	TTTATAGAGT	CCTCATTTGT
167221	TTTTTGCTAGA	GAGCATGCTA	AAGGCTATAT	GTGCAGGAAC	ATACTGATCC	CCTTGCCAAC
167281	CCTGAATAGT	TGGTAGGATT	T'TAAACTTCA	TTTCTGTGCT	G'TAGAAAATG	AGACTAAGAA
167341	AGGGGTAAAA	TAAC'TTGCCC	AAAGGGCTAT	GACTGCCAGG	TGGTGGAGCA	ACAATTGCAA
167401	TCTCATCTGC	TGACCCAGAG	CCTGAGCTAT	GTCCACCACCT	AGAGTCCTGC	CAGGAAAAAG
167461	TTGGATATAG	AACAAGGTAA	TCATCATCTA	AAAGATTTTG	TAAAACAACA	TGCTGAACCA
167521	AGCAAAACCA	ATACCAGTGT	TTGGCACACA	TGAAATTTTG	TGCTTATGA	GTCAGGAAAA
167581	ATCAGGATGC	CAGCTGGTTA	TTAGAAACAG	TTCATGGAAG	AGGGGAATTC	TGGTATCTTT
167641	TGAACAATGG	TATCATGAAT	CCAATTTAAA	ATGATTTAGT	ATTATGTCAT	AGCTTTTAGC
167701	TTATTCTTCA	AAACAGTTTC	TCATATTTCT	ATTGAAAGTG	ATTTGAAGCT	GACCCAAATT
167761	GCTAATTGTA	GTCAATGCTG	AAAGAATTGT	CTCCTGTCCCT	CTGTAAACCC	AACAAGTATA
167821	CTCATTCATT	CTCGAGTGTT	CTCAGGAAAA	GGTTCATATG	AAC'TGTTTTA	GCAAAAGATG
167881	ACATTGTCCT	TACTATATGC	CAAGTGCTAT	TCTATGCATT	CTATATTTTA	ATGTCCCTCAA
167941	AGCTTATAAC	CACCTCCTGT	GTATGTGTTT	TAGGGAGGGG	GGACACTGCT	ATTATCCCCA
168001	TTTACAGATG	GAGAAACCAA	GGTGTGAAGA	CATTAAGTAA	CGTGCCCAAA	ATTGCCCATC
168061	TAGTAAGTGA	CAAAACTCAA	TTTCAACATA	AGCTGGTTCC	TTTTCTTACT	ACTTGGTGGA
168121	AAAGTAATTC	AAATGGGAAT	ATGATCATCG	CAGTTATTAG	CTGCTCCATG	GAGTTTAAGG
168181	AAGAGCTGCC	ATGAGCTGAG	TGGTGGTCAT	GATTGACATG	TCCTTAGAAG	GACTTAGAGC
168241	CTTCATACAA	GACCACCTCT	GCCTCATGGA	GGACAGAATA	AGGAGCCTGA	CACTGGAGAC
168301	AACATTTTCC	TCAAATTTAG	GCAGGACAGA	GAAGGAAAAA	GGACATCAGG	ACTATGCCCC

Figure 2 (Page 52 of 74)

168361	TTCTCCATG	CTGCCAACAG	CAAAGTCCCA	CCTTCCTTAA	TATGCTTTCT	GGCAAGAAAT
168421	CTGGATGGTA	CACAAAACCT	CTCCCTCTGC	TTCACCTTCC	ACAACCAAGC	ATTTCCAAAT
168481	CTTTGACTCT	TCTTCCTGAA	TCGTGCTTAA	AATCTGCCCT	CTCCTCCCTT	TCTTATACGG
168541	ATAGTTTGAA	TTTTACTCCT	TGATATTCCT	TTTATCATAG	ACATGCCACA	GTAGCTGGGC
168601	ACAGTGGTTC	ATGCCTCTAA	TCCCAGCATT	TTGGGAGGCT	GAGATGGGAG	GGAGACCAGG
168661	GGTTTGAGGC	CAGTATAAGC	AAGAAAGGCA	GACCATGTCT	CTACAAAAAA	TAAAAAAATT
168721	ATCCAGGTAT	GGTGGGGCAT	CCCTGTAGTC	CTAGCTACTT	GGGAGGCTGA	GGTGGGAGGA
168781	TTGCTTGAGC	CCCAGAAGGT	TGAGGCTGCA	GTGAGCCGAG	ATTGCACCAT	TGTACTCCAA
168841	CCTGGGATAC	AGAGCAAGAC	CCTACCTCAG	AAAAAAAAAA	AAAAAAAAAA	AAAGTAGAGG
168901	TACCAGAGTG	ATATTTTCAA	TGCTACTGAC	CCTTCATTCC	CCAAATGAAA	ATCCCCCAAT
168961	AGGTGTTCAA	TTTTTACGTG	TCCCTCAGGA	GTTACTTCTA	AGATGAACCA	CTCTCTACCC
169021	TAAATGTCCC	TCCCCACCAC	CAAAACCAGG	GACCTCCAGG	CAGACATTTT	TGATGGTTTG
169081	TTTTCTTTAC	TAGACTGTAG	ATACCTAAAA	GGTGATGGGT	CTTTCTTTCC	TGTTTTTCAGG
169141	CCCTACTGCA	TGGCTTTTACA	TATTGTGGTT	TTTCAAATGA	TATTCATGGT	GTGAAACAAG
169201	AAAAAATGCG	GGTGTTTGGT	TTGAGAACAA	CCTGTCTTAA	AGCAAAAAGA	AATTCATCAT
169261	AACACAAATG	GATAGAGATA	AGAGTCCAAC	CATCCCATTG	AAGGTCAGGA	TGGACAGTCT
169321	AGATAATTGA	GCAAGAAATC	ATCATAAACT	ATTTTTTCAGA	AGAATGACAT	GATGAAAGCT
169381	GTATTTCCAA	GTCATAATGT	TAGGTTTCAA	GTTAAATCAT	CTCAGCTCCT	GGGGAGCAGG
169441	ATAAGACTTG	GTACTTACCA	AAGCTCCCGG	GCCCACACAC	TCACCTTGTA	GCCCTGGCAT
169501	ACGTCTTCAA	CAAGAGCTGT	GGTGTGCCCT	TTGTGCTGTG	GTGCCCCTC	ACAGCGCCAG
169561	CAGATGAGCT	GCCCCCTCATC	TTTCGCAGAAC	AGGTGGAAC	GCTCTCCGTG	TTCTCACAT
169621	GACATTTCTT	GATCCGTCTC	TTTGAGGGCT	TCAATGAGGC	TTCCCAGCTG	CTTGTGGGT
169681	CGGAGGCTAT	CCATATGAAA	TGGAGCCCGA	CAC'TGGGGAC	AGCAGAATGT	CTCCTGCCCTC
169741	AGTTGCTTTT	GGCTTGGGT	TTTAAAGAAG	TCTGTTATAC	ACAAGTGGCA	GTAGCTGTGT
169801	CCACAGTTGA	TGCTTACTGG	GTTCGTCATC	AGGCTCAGGC	AGATGGAGCA	GGTGGCTTCC
169861	TCCATCATCT	TCTTGGTGTG	GGTGGTTGAG	GCCATAGCTT	TTATTGAAAA	GCTCCAATAT
169921	TGGCTCTAGA	GATGGAGATG	AAGCAGCCAG	AATTTTCCAC	CGTGATGAAA	ATACACCTCA
169981	CCTGCACCTC	TATGTGATGA	GCTGGCTGCA	ACTGACTTCC	ATAGGCTCTG	AAGGTTTTCC
170041	TTCCAACCCC	TATTATCTCA	TTTTGTATTG	AAGAAAAGAG	GACCTAAAAAG	GAAAGAATTG
170101	AGGCTGAGGT	TGTTTGGGCC	ACGTTTGAGA	ACTGCAACCC	AAGTGCAGAG	TTTCAAGTTG
170161	CCCTCATTAG	CAAGCAGTTA	CAAGTGGTTG	TTTAGAGGAA	AAAAAGCAGT	TTTAAAGCAG
170221	TTTTAAAGTT	GTTTGCCAAG	AATTTACATT	AAAATAGCAT	AAGCTTTTGA	CTGGCTATAC
170281	ATTGTTCTTT	GTATTACAAA	TCTCGGGAAT	ATGTAGGTAA	TAGATGAGGC	AGCCAGTCAG
170341	GAACAAAATG	CTTTTAAACA	TGGGGTCTTA	ACTGAAGACC	TATACTCCTG	CCTCACTTGT
170401	CCTGATAAAT	TTTGCATACC	TCACATAGCT	CAGACTGCTC	TAAATTATTT	CATTATTTTT
170461	CTTTTCTCAG	TCTTCTAACT	TTTTTTTTTTT	TTTTTAAATGA	GACGGAGTCT	CACTCTGTCA
170521	CCCAGGCTGG	AGTGCAGTGA	CGCTATCTCG	GCTCACTGCA	CCTCCGCCTC	CCGGGTCAA
170581	GCGATTCTCC	TGCCCTCAGCC	TCCCGAGTAG	TAGCTGGGTC	TACAGGTGTG	CACCACTACG
170641	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGGT	TGGCTAGGAT
170701	GGTCTCGATC	TCTCGACCTT	GTGATCCACC	CGCCTCAGCC	TCCCAAAGTG	CCAGGATTAC
170761	AGGCATGAGC	CACCGTGCCC	AGCCTCTTTT	TCTTTTCTTA	TAAGACAAAGT	TCTCGCTCTC
170821	TTGCCCAGGC	TGTAGTGGAG	GGCAGTGGCA	TGACCACAGC	TCAGTGCAGC	CTCGACCTCC
170881	TGGGTTTAAAG	CAATCCTCCT	GCCTCACCTT	GGCAGAGTGG	CTGGGACTAC	AGGTATGTGC
170941	CACCATGTCC	AGCTAAAGTC	TTCTCTCCAG	AAAGAAGAAA	TGCATTGGAA	TTTAGAGGAT
171001	ACACAAACAT	CTAGCTGTAT	AGCTAATACA	GTAGCCACTA	TCATGAGTAG	GAATTTAAAT
171061	TTAACTTAAT	AAAAATTAAA	ATGAAAAAAT	TCAGTTTTTC	TGTTCCAGTT	GCCACATTTT
171121	GATTGCTTAA	TAGTTGCATG	TGACTAGTGG	CTACATAACA	GCCTCAATAT	ACAACATTCT
171181	GTTATCACAG	AAAGTTACCT	TGGACCAAGT	GCTGGGAGAA	GCAATGCAGG	CTCCTCACA
171241	AAAGCTGTAA	AAGAGAGAAC	TCAGGGAGTG	TGAAACTCTT	TCCTATTCTA	GTTAACTTCA
171301	AGAATAATTG	TTACCAGGCC	AGCACGGTGG	CTCACGCCTG	TAATCCTAGC	ACTTTGGGAA
171361	GCCGAGGCGG	GCAGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGCCTGACC	AACATGGCAA
171421	AACCTCATCT	CTACTAAAAA	TACAAAAAAGT	TAGCTAGATG	TGGTGGTGCA	CACCTGTAAT
171481	CCCAGCTGCT	CAGGAGGCTG	AGGAAGGAGA	ATGACTTGAG	CTCCGAGGGG	GGAGGTTGCA
171541	GTGAGCCAG	ATTACACCAC	TGCACTCCAG	CCTGGGTGAA	AGAGCGAGAA	TCTGTCTTAA

Figure 2 (Page 53 of 74)

```

171601 AAAAAAAAAA AAAAGAATAA TTGGTACCAG AATTACTCTT TGTAATTAGT AGTAACACTT
171661 ATGCAATTGG GTGATCTGTG ACAGATTCCA TTGAAGGAGT ATGGGGAGCT TCACCCAAT
171721 ATATGACTCC CTGGTATAAT GAGTATTTTG AATTAAAGGC CCTTAGAGAT CAGCAGATGC
171781 TGGAAGAGAC TTTTCCCCTA TCTACATAAA GACCAGTCAC ACTAGACAAG AAGAACAATT
171841 GTTTTTTCCTT CCAACCCCTA TTATCTCATT TTGTACTGAA GAAAAGAGGA CTAAGAATGT
171901 AACCAGACCT AATCAGACAC TTTCACAAAA TAATGTCTGT CTCTCAGGCT CATTCATTTT
171961 CCAAAGAGAA CCATTTACAA GTTAAACTCT GTTCCTCCAT TCATTTCATCC TCCCAAATAT
172021 TCATTTTATTC TCCCTAGTAA TCATTTACTG CCCCTCAAAG AATTACCTAT ATTCTCCTGA
172081 TATCACCCCTT CCCCTCTGAA ATAAATATGT ATACATGTAT AAACGTTATA CATACATATT
172141 TATACAGTAT ACATACATAT TTATACATAC ATACATATGC ATACATATTT ATATTTATGT
172201 ATTTATACAT AAGTATTTAT AAATAAGGCT ATATAAGTAT CTACCCCAT TGGCAGAGGG
172261 GGTAATCACT CTGTGATTCT AGCCCATGTA CTTGTTAATA AATTTGTATG CTTTTCTCC
172321 AATTAGCCTG CCTTTTGTGA GTCGATTTT CAGTGAACCT CAGAAGGCAA AGGGGAAGTG
172381 TTCCCTTGGC TCCTACACCA TCATGACAAT AAAATTTGAC TCCACCTCGA CCCCCCCCAT
172441 CCCCCACAAA GAACAACAAC CAACACTGGT TAATAAGGTC GGTGTTTTTT TGTTTGTGTT
172501 TTTGTTGTTG TTGTTGTTGT TGTTGTTTTT GCTTTCAGGA GCAGAGGTAT AATAGGCAAA
172561 AGAAAGAGAA AGGAGAATAG TGAATACCTC TTCTGCAGAG AGGGGTGCCT AAGTGGGACT
172621 TCCCTGGCTA ATAACGTCTT GCTAGAGACC CAACCAGGAG GATAATGGAA GCAATCAAGG
172681 CAACCAGAAC AACCAGAAGA ACCAGTTTAT CCTTTTTGTG CCCTCTCCCT AAAGTGGGG
172741 AATAAGAATT GGAAAGAAGG CTGCAGAGCA GAGGGTTTGC TCCTGAGGAG CAGTTATTTT
172801 TATGGGATCA GAGCTCCTGC AGAATGAGG AGTTTACTTT TACTATCTCT TCTCCAGGAC
172861 AGGACCTATC TCAAGAGACA GTTTCAGAGT GATTGCAACA TAAAGAGTTT GCAGACCCAA
172921 GGAGGTAGGG AAGGCAGAAA GAAGATGGGG GAGGCCAGGG ATAGGCAACA GAGGAGTGAC
172981 CAGGAGCGAA AAAGCCTGCC TCTCTGAGA ACCTAGCTGG GCTCTCCCTG TACCCCGAT
173041 CCTCCCCC CGCCCGCCCC CACACCCCTA CTCTGGGAG CTCTCTAGG ACAGGGGCGAG
173101 AGTCAGGAGG AAGTTTGAAG AGTGCCTAGA ATAAAAACA GTAATTTAAC TACAATTACC
173161 GGGTAGGCTG TTTTCTCTCT CAGGCTATTT CCTCCAGTGA TACACCAAGC CACTCTCTGC
173221 TGAAGACGTG TATTCCTTGG CAGGCTATTT CTCCCTCCT TCCAAGGCTC CAGGGTTCTT
173281 TGGGGTCACT GCTCTTCTGG GGAGATGGGG CTCCCTCCT TCCAAGGCTC CAGGGTTCTT
173341 GTCCTGGGCC CCACTCATCT AAGTCTTGAA TCTTCTGAGA TTTGGTGTAA AGTCTGGTGA
173401 AAGAAAGAGC AGGAAAGAGG TGAGAGCTGT AAAACAAAGA AAGTCTTGAC CATTTTTCTG
173461 GTTGGAGGGG CCCTGCTGTC ACGAAATATA TTCCCCACCC CACTTGCCAT CAGTACACAC
173521 TCACATATCC ACTGAGAAAA CCTTAGCCTG GACCTTTTCC GTAACCTTCA CTGCTCAGAC
173581 ACTTACATAT TCGCTGCTAG TCCCTCTGT TGCTGCCACT TCCTGGGTCA GGAAGTTAAC
173641 TCAGACCGGA TTAAACTGAG AAGTGAACT ACTGTGGGAG GCGGGGCTCA TAAGATTAG
173701 GAGAAACTA GTGACGTTGT TCATATCATT TGCACCTCCG CTCTCCGTA AAGGAGGGG
173761 AAACGTAGGA AGAAAATATC CTTCTTTTAC AGCAATAAAA AGAAGGAACC AATTAATAAC
173821 CCTGTAACT ATCATGTGAC CCAACACAG AGTATCTAAA AACAGGAAGC CTGCAGAGGT
173881 TCAGTTCACA GACTCTGATT TGAGATCTTT CTACTTTTGC CACCAACTCC CTTGGGAGTC
173941 CTTAAGCCTT CCTAGCTGAT GTTACTTCTT TTGCTATTTA TGGGTGCTT GTGGTTCTAT
174001 AACTGCTCTG AAGGGTGTGG TGGA AAAAGG GGTGGTAACA GCAGTAGGAC TCATTGGCAT
174061 CACAAAATTC ATCTGAGTCA GCTTCTTATT CTTCTCTGTC CCGTCTGTG TCTTGTTTTT
174121 CTCCTTGCTG TCCTTCTGCA GGACTCAGAT CTTCTTCAAT AGCGAGGGTC AGCCAGGATA
174181 GAAAATGGGA GTCACAGTGT GCCCAGCAGT GAGTGCCCCC AGCTTAGAGC TGTGTGGGAT
174241 CCCTGGGACC ATCACTCTGC TTTGTGCTTT GTGGAGAAAA GGCTGTGGGG TCCAGGGTCA
174301 AGTCCTTAAT GACTTAGCTC CAGCTTCTCC ACTTCAAAAT GAAAGGAAAA GTACTATCAC
174361 CACCCGTTAG AATTATTATT TCATGGGGAA AAAAGATGGA TTACTATCTC ACAATAAGAG
174421 CTTGTACAT TTATAAGTCT CAGGTGTAAG AGGCATTTAT GATAACAACA TAATAAATGC
174481 TGGCTTAAGT AGATGCAGTG GTCCAAGGGA ACCAGTAAGG GGAGCTCAGG ACACAGGTGG
174541 GAGGAGAAAT TAAACTTGAA TTCTGGGAGC CACTGGCCTG TCTGGGCCCC TGGCCTGCCT
174601 GCTGACCCTG ATAGCCAATG GAACATGGAG TTTGGCCCAG CTGCAATCCC TCTGGTCCAA
174661 CTAATCAAAA TAAAGGCAAG ATTGGGAAAC ACGTTCTTTT CTTCCTATAC CAAGCAGAAG
174721 ACTCTTCAGC ACTGCACCCT CCTGGGTGCT CACAGAGCCT TCTGTTGTTT TGCCACCTAC
174781 GATTTCATCAT GCCCTGGCAT GATGGTTGCA GACCCCATGC ATAGCATGGG ACATTCTACT

```

Figure 2 (Page 54 of 74)

174841 CCTGAGGCAA CCAGCACACA GAGAGAGGAG AAAGAATGAG CCCCTGAATC CTTGGTCCCA
174901 CGATGAGTCC TTGCAGATAT CTACAACCTT CATTGTTGTG GATGTGACTC TGTACCCAGG
174961 CATGGCTCAT TCCAGATCTG TCCTATGTGC AGAGGTGTTC AAACCAGAAT GACTCCATTT
175021 TGAATGGGGG CTAGGTAAAA TAAGGCTGAG ACCTACTGGG CTGCATTCCC AGGAAGTTAG
175081 GCATTGTAAAG TCACAGGATG AAATAGGCAG TTGGCACAAAG ACACAGGTCA TAAAGATCTT
175141 GCTGATAAAA CAGGTTGCAG TAAAGAAGCT GACCAAAAACC CACCAAAAATC AAGATGGCAA
175201 CAAGAGTGGC CTCAGTCAT TCTCATGTCT CATTTATACAC GAATTATAAT GTGTTAGCAA
175261 GTTAGAAGGC ATTCCCACCA GCTCCATAGT GGTTTATAAA TACCATGGCG ATGTCAGGAA
175321 GCTACCTTAT ATAGTCTAAA AAGGGGAGGA ACGCTTGCTT CTGGGAATTG CCCACATCTT
175381 TCCCAGAAAA CATATGAATA ATCCACTCCT TGTTTAGTAC ATAATCAAGA AATAACTGTA
175441 AGTATCTGTA TTAGTCCATT TTCACACTGC TGATCCAGAC ATACCTGAGA CTGAGTAATT
175501 TATACCAGGA AAAAATGTTT CATGCTCTTA CAGTCCCACG TGTCTGGGGA GACCTCACAA
175561 CCACAGCAGA AGGCAAGGAG GAGCAAGTCA GGTCTTACAT GGATGGCAGC AGGCAAAGAG
175621 CTTGTGCAGG GAAATTCCTT CCTATAAAAC CATCAGGTCT CATGAAACTT ATTGACTATC
175681 ATGAGAACAG CAGTATAAAT TACTCAGGGA AAGACCTGCC CCCATGATTC AATTACCTCC
175741 CACCAGGTCC CTTCCACAAT ATGTGGGAAT TTAAGATGAG AGTTAGGTGG GGACACAGCC
175801 AAACCATATC AGTATCCTTA GTCCAGAAGC TGATGCTCTG CCTGTAGAGT AGCCATTCTT
175861 TTATTCCTTT ACTTTCTTGC TTTCACTTTA CTGTGTAGAC TTGCCCCAAA TTCTTTCTCA
175921 CACGAGATCT AAGAACCCTT TCTTAGGGTC TGGGTTGGGA CCCCTTTCTT GGTAACACTA
175981 TCAAAGGATC AGGAAAAGGA AGCTAGTGAA TGCTAAAAAG GAAACAAACT ACCATTACCA
176041 ATAATAACAG CAAGACAAAA GCAAAACGGA TTGTGACAGC TGTCCCATCT CACACCTGTT
176101 TCCCATTGCA GGAAGGAGGG GCTGGTTTCT GCACAGAGTG GCCAATATTA GAAGCAGAGA
176161 GGGGGTGCAG ATGAGACTTC AGGAATATGT TGACAAAAGC AGGCCTAGGG AGAAATCAAC
176221 CTGAACATAT CCCAAGGAGG AATGCATTAT CTCTAATATG TAAAGTTAGG CTTGATCCTG
176281 TGATTATGGG ATATAGGAGT CCAAAGACTC ACAATGGGAA GTAGGTCACT AGAGTCTCCT
176341 TCAGAAGCTT TGTACTGTGT GTTCCCCTG TGGGCAAGAG TCAGCACTCA GCTATTCCTA
176401 GAATGCCTTT CCTCACTCC TTCAGATTTT GCCTCTCAAC TAACCTATC CTGACCCTT
176461 GTTAGCAAGT GTACCCCTCT TCCCTCCCA AACATTTTCA AATCTATTTT GTTCCCATTG
176521 CACTTATCAC TGAATATTTT ACTAATTTAT TTTGTTTAGT GTTTGCTTCC CTCATGAGAA
176581 TGCAAAGGGA TGGATTTTTT TCAATATTTT TCACTGATGA ATCCCAGTAA CTAGAAATATT
176641 TCTAAGCATA GTGATGTGCA TTAAATCAAA GAGTAACTTT CTGAATTGCA CTAAACACAC
176701 ATCACAAGAG GTGTGTGCAC ATATGTGCAT GATGCACGTA GTGTGGTGTG GGTGTTGTGT
176761 GGGGTATGTG GTACTGTGTG TGCTGTGTGT GGTATGTGAT ACATAGTTTG TGTAGTGTG
176821 ATGCATGTGA TGTGGTATGT GTGTGCGTGT CCATACATAT TAGGGGTGGC GGGGATGTTA
176881 ATATGTCAAA TGGTACTAGA AAGTATCAGA ACTCATGGTG CTTACTGGTT TCCCAGAGAG
176941 CTGCTTCTCT CCCACCTGTA GGATATACCT ATGGTTTGGA CAGAGAAGAA ATAAAAAGAA
177001 GGCTGTGACC TACTGGGCTG AGGAAATAAA AACGAAAGTA AAAGAAGAGC TGGGAAAAGA
177061 GAGTGGAGGG GCCAAGGGAA ATTTCCCTTT TGGCTTCTGG GGAAACTTTG CTGAAAAATC
177121 AACTCACAAA TTTATTAACA TGTACACAGG GAGAACCATA GAATGATTAT CCACTTCCCA
177181 AGAGGGCTTA AAAGCTTATA TATTATCCCT GCAAAACAGA TTATGGGAGG GGAAGAAGAG
177241 AAACCTGTGT GATGGGATTA CTGTTGCGGA TTTTGTGCTC TTCGCTCAGC TAGGTCCGGG
177301 TTTTGTCTCT ACAGCCAGGA AGAATTAGGC ATGCAGCCAT CAAAGAATGA GTGGAGTAGA
177361 ATTTATTAAG TGAAAGGAAA GCTCTCAGCA AAGACAAGGG TCCTGAAAGC AGATTTCTGG
177421 TTTGCTCTTC ACAGTTGAAT ACTAGGGCTT AAGACTCAAA TTCTTGACAA CTCCACCCTG
177481 TCCTACCAGT GCATGCAGGC CTTTAGACTG AGCTACTCCA TATTGATTAA TTTCCGTGAAC
177541 TGCGCATGTG TTAAGGAAAG GAATCATCCA CTGCAGGCAT GTTTAGGCCAA GCCCCCTGTG
177601 CAAGTTCCCT TATCTGCACA AAACATCCGG TGTAAAGCACT TGTGGGGCAG GTCAGAGGTT
177661 CTCTGGGTAC CATTCCTTCA CTGTCTGCCCT AAAGCAAGCT GGCCAACTCC TTTTATTACT
177721 AGGGAGAGTA AGTAGATCAG GGAACAGAGA TTAACCTGAA CATTATCTTG TGAAAGTCCG
177781 TTCGGGCATG GTTACATTCT TGGTCTTACA GGAAGGGTAA ATAAAAATAA TTGCTCTTTT
177841 TGGTGGGTCT GGATCTTAGG TAGATAAAGA AACTTTAATT CCACGATGTG TTTTGGTAGG
177901 GATAGTTGGT GGCAGGGATG TCAGAGAGAC TTTGAGGCTT CTTCACTTCA ATATGACCAA
177961 GGGCCATATA TTAGGGTATC AATTTCTGAG CCCCAACAAG AGCTTAGGAG AGATGTGATA
178021 GCATCACAGT GTGAAAGCAA TTTTGTGTCT GTTTTGTAGG ACAGGCTCTT GCACTGTCCAC

Figure 2 (Page 55 of 74)

```

178081 CCTGGCTGAA GTACAATGGT ACGATCACAG CTCACTGTAA TCTTGAAC TG GTTCAAATG
178141 ATCCTCCCAT CTAAGCATTT CAAAGTGTTG GGATTACAGG CATGAGCCAC GGTACCCAGC
178201 CTGAAACTGC ACCCACTTTC TGATAAACTT TTCAAATGAC TAAAGGGGAG AGAGTAAGCA
178261 CTACTCAGAG GTAGGAAGAA AGGACACAGG ATTATAGGAT TAAAACAACA ACCACCAAAA
178321 AAAACCAGAC CGGTGTGGTG GCTCACACCT GTAATCACAG CACTTGGGGA GGCTGAGGTG
178381 GGGGGAGTCA CTGGAGGCCA GGAGTTCGAG ACCAGCCTGG CCAACATAGC AAGACGCTGT
178441 CTCTATTAAA AAAAAAAAAAT ACCTGCCTTG AGCTAATCAG AATCATGGAC CCTGACAAAG
178501 GATGTCCCAA AGTAAGTCTT AGCATTTTTT TTTTTTTTTT GAGACAGTCT CGCTGTGTTG
178561 CCCAGGCTGA AGTTCAGTGG CGTGATCTCG GCTCACTGCA ACAGCTGCCT CCCAGGCTCA
178621 AGCAATTCTC CCTGCCTTCA GCCTCCCAAG TAGCTGGGAT TACAGATGCC CACCACCAGC
178681 CCTGGCTAAT TTTTGTTTTT TTTAATAGAG ATGGGGTTTT GCCATGTAA CCAGGTGGT
178741 CTTGAAC TCC TGACCTCAAG TGATCTGCCC ACCTTGGCCC CTCCATAGT CTTGGATTAC
178801 AGGCGTGAGT CACTGCACCC GGCAAAAGTCT TAGCATCTCT TACAAACAGT TTGTACCCGT
178861 ATCTCTAAAA GGGAGTAGTG AATTTACCCC CAAAATATGG CTTCTTGATA TAATGAGTAT
178921 TTTGAATGAA AAACCTTAG AGATCAACAG ACATAAAGA GACTTTTCCC TAGGTACATA
178981 AAAATAGGAT GGCCCCACCA GCGAGAACA TTGTTCTTTT CTCCCTCCCT GTTATCTCAT
179041 TGTGCATTAT AGGAAAGACC AAGAATGTAA CCACACCTGA ACAGACCTTT TTATAAGATA
179101 ATCAGTCTCT AAGCATCATT TAAATCCAA GGAGAACTAT TTACAAATTT ATCTGTTCTT
179161 TGATCCAATT AGTCTCTCCT GGTAGTTACA TATTGCCCCT CAACAGAATT CCTCTCTTTC
179221 TGTTTCCCAT AACCTATTTT GCAAGGATCA AGCCCCGTGT ACTTCTTCAA CTTCAAGTTG
179281 GCATATAAGC TTCTAAATTC CACTGGGATA TTGGTACTAT GTGCATGAGG AGAACCACAG
179341 AGTAATTAAA TTGTAAAGCC TTTTATCTTA TGAATCTGCC TTTTTTTGTG TTCATTTTTT
179401 AGCAAACTT CCAAGGGCAA AGGTATAAAA CAAAAATAAA ATTCTAAAGC CCCCCAACCA
179461 TCTGAATAGA CTTTCTCTTC AGTCAGGCTT CTTAAATGT AACCTGAAAG ACTGGCTCAG
179521 GCCATTAAAG GAAGTGGGGG TTGAACATGC CTCATTATTC CTCTCTGGCA TTAACATCAA
179581 CACAGCTTTT AAGTCTGATA AGAAACATTT TACAACCTAT TCTCTCTGAA GCCTGCTAGC
179641 TAAAAACTTC ATCCCCAGT ACAACTTTGG TCTTCACAAC CTGTTATCAC AACCTAGTGC
179701 TCCTTTCTAT TAATCCCAA TCTTTATACA AACTCAACCA ATTGTCATCA CCTCCACCCC
179761 ACTCCTCCGC TGCTTCCAGT TGTCCCGCCT CTCTGGACCA AACCAGTGTA CATTTCTTAA
179821 ACGTATTTGA TTGATGTCCC ATGCCTCCCT AAAATGTATA AAGCCAAGGT GCATCCCAAC
179881 CACCTTGAGC GCTTGTCTTC AGGACCTCCT GAGGGCTGTG TCATGGGCCA TGGTCACTCA
179941 AATTGGGCTC AGAATAAATC TCTTCAAATG TTTTACAGAG TTTGGCTCTT GTCATGACAC
180001 AGATGACTGC TTCACTGAAG CCTGCTCTGG AAGTGAGTGG GGGTTTTGCA AGGATAATTT
180061 TCCCCGATA GCCCCAGAAG CAGCTAGTAA TAATACACTT AAAGGTAGCT AAAATGCATT
180121 GAACACTTGT TTTGTGCCAG ACCTATGTCA ACATTTGCTT TGTGCCAGGC TTATGCCAGT
180181 ACTCCTGATT TGTTAATACA TTCTAAATAA AAATCTGGA GTTTCAAATA TAATAACTGA
180241 AAAACAGAAA ATAAATAAAA ATATATAATA ACTGAAATAA AAATTTACTA AGGCTGGGGA
180301 TGGTGGCTCA CTCACACCTG TAATCCTGTT ACCGGAAAGG GGTCCGTCCA GATCCAGACC
180361 CCAAGAGAGG GTTCTTGGAT CTCACACAAG AAAGAATTCT GCGAGTCTG TAAAGTGAAA
180421 GCAAGTTTAT TAAGAAAGTA GAGGAATAAA AGAACGGCTA CTCCATAGGC AGAGCAGCTC
180481 TGAGGGCTGC TGGTCGCCCC TTTTATGGT TATTTCTTGA TTATGTGCTA AACAAGGGGT
180541 GGATAATTCA TGCCTCCATT TTTTAGACCA TATAAAGTAA CTTCTGACG TTGCCATGGC
180601 ATTTCGTAAAC TGTCGTGGCG CTGGTATGAG CATAGCAGTG AGGACGACCA GAGGTCACTC
180661 TCATCGCCAT CTTGGATTTG GTGGGGAGCA GTGAGGATGA CCAGAGGTCA CTCTCATCGC
180721 CATCTTGGAT TTGGTGGGGT TTAGCCAGCT TCTTTACTTT TTTCTTTTTT TTTTTTTTTT
180781 TTTTTTTTTT GCCCAGGCTG GAGTGACGTG GCACGATCTC AGCTCACTGA AACCTCCAAT
180841 TTCTGAGTTC AAGCGATTCT CGTGCTCAG CCTCCCAAGT AGCTGGGATT ACAGGCATGT
180901 GCCACCACAC CCAGCTAATT TTTTATATTT TTAATAGAGA CCGGGTTTCG CCATGTTGCC
180961 TACGCTGATC TCCAACCTCT GCGCTCAAGC CATCCAGCCA CCTTAGCCTC CCAAAGTGCT
181021 GGGCTTATAG GTGTGAGCCA CCCCACCTGG CCTAGCCGGC TTCTTTACTG CAACCTGTTT
181081 TATCAGCAAG GTCTTTATGA CCTGTATTTT GTGCCCCTG CCTGCCTCAT CCTGTGGCTT
181141 ACAATGCCTA ACTTACAGGG AATGCAGCCC AGCAGGACTC AGCCTTATTT CACCCAGCTC
181201 CTATTCAAGA TGGAGTCTTT CTTGTTCAAA TACCTCTGAC AAGCCCAACA CTTTGGGAGG
181261 ATGACACAGG AGGATTGCTT TAGCCTAGGA GCTCAAGACC AGCCTGGGCA ACACAGTGAG

```

Figure 2 (Page 56 of 74)

181321 ACCCCATCTC TAAAAA AAAATACAAA AAATTAGCCA GGCATGATGG TGTGTGCCTG
181381 TAGTCCCTGC TACTCAGGAG GCTGAAGTGG GAAGATGGCT TCAGCCCAGG AATTCAAGGC
181441 TGCATTGTCA GAGGCATTGT AACAGAATG ACTCTATCTT GAATAGGGGC TGGATAAAAT
181501 AAGGCTGAGA CCTGCTAGGC TGCATTTTCCA GTATGTTAGG CATTCTTAGT CACAGGATGA
181561 GATAGGAAGT CAGCACAAGG TACACATCAC AAAGACCTTG CTGATAAAAT AGGTTGTGGT
181621 AAAGAAGTTG GCCAAAACCC ATCAAAACCA ACATGGCCAC CAAAGGGACC TCTGGTTGTC
181681 TTTACTGCTC ATTATATGTT AATTATAATG TATTAACATG CTAAAAGACA CTCCTACCAG
181741 CATCATGACA GCTTACAAAT ACTGCGGCAA TATCTGGACT TTACCTTATA TGGTCTAAAA
181801 GGTGGAGGAA CCCTCAATTT TGGGAATTGT CCACCCCTTT TTTGGAATGC TCATGAATAA
181861 TCCACCCCTT GTTTAGCACA TAATCCAGAA ATAACATAA GTATGCTTAT TTGAGCAGAC
181921 CACGCTGCTG TTCTGCCTAC AGAGTAGCCA TTCTTTTATT TCCTTACTTT CTTAATAAAC
181981 CTCTCTTTCAC TTTACTGTAT GGACTTGCCC TAAATTCTTT CTTGTGTGAG ATCCAAGAAC
182041 CCTCTCTTGG GGTCTGGATC AAGACCCCTT TCTGGTAACA TCTTTCTGGT GACCACGAAG
182101 GGACAATACT GAGGAGACTC TGAAGCCAAA GGAAACAGAC TACAGCAGCA ACTGGCTGAC
182161 TTTGGGTAAAG TGGTGGAGTC CCCGGGTAAA GGATAGGATT GGGTTAGAGG TGCAACTTAG
182221 GGGAGATAGG GTCTCTCCTA AGACAGAGAG CGTTTCAGTC CGCTCTTAAT AAAGGGCAAG
182281 AATGCTTGAC CGAACTTGGG TTTGAGACCC AACTTAGGAA GGCTACAGTC CTTAAGATTT
182341 AAGGGGTTAG AGGCCCTCT CAGTAAAGTC TCTCTTGGTT AAAAACGGAT TTAGCATTAG
182401 GGGATGTTAA CTGCTATTCT GTTTGTATTA ATCTTCCCTG TGCTCTTTCG TGACAGCTAT
182461 GGGTGACAGG ATTAGGCATG TACAGGATCA CGGGACATTG GGAACCTTTC TTCTCTCCAA
182521 AAGGGGAAGC TTGACAGCTG ATAGGACTGT TGGAAAAGAT CCCTTTGCTA TGACAAGCAG
182581 CCGCCTGAAC TTTTGATTCA GTGTTGCTGC AATGGGTGGG TCTTTCTCTG GCCTCTGTGA
182641 ACTCCTCACC TTCCCCACCT CACCACAGGC AATGCTTTTC TCCCTTTCTC TCTTTTCTCT
182701 TTTCTGTCTT TTCTGTACT TGAGACAACC ATCTTGCCCA GAGACCATAT GTTGAAACTC
182761 CTGGTCAGAA GTTTGATTAA AGATGAAAGG GCCTATCTGG GGGCAAGTTT GAGCCTTCCC
182821 AGTTAGATAT TGGGTGCTAA GTGGAGTGGC CAATGTCTAT GTTTTGTGAC ATGTATATTG
182881 CTCTGGCTGA AATGGAACAC GTTAATTTGG TTACTTTATG TGGCCATTGG GCAGCATCTT
182941 ACAAAGTGA GAGACATTTA TTTGCCTGTG GTTCCATGAA ACAGAAAAAA GTTGGTTTTT
183001 CTTTGTGTCG TAGCTTGGAC CCAAGGGCTT TGCAGTGAGC AAGGTTGCTA CGCTGTCTCA
183061 GTGAAAGAGA ACCCAGAAAC CTGGCATGCC AGCAAAAGGG TAAAGATTTT TTACCAGTCA
183121 GGCTTCTGGC CTCTCTCTCT TAGTGAAAAAC TGAATGAATG GTAAAAATCA CTGTTTATCA
183181 CCTCTGTAAA GTTTTGATTA ATGGGAACAA GGATTTGTGG GGCTAGTCTT AAGCTGTAAT
183241 GAATCTGGTA TACTTTGTGA TATCAATTTG TCTTTCTGTA TTACTCTGTC ATAAAGAGGA
183301 ATATGGTAGG ATAGAACATG GGCTTAGGAC TCCATAAGCC TGCTGTTCAA GCCAGCCCAG
183361 TAAACTGGTC CGTTGCAAAG TTTATTACAG GTCCCTGGAA AAAAAAAAAA TAAAAACTG
183421 GATGAAGTTT CCTTCTCATC TTGTTTTATG TCCTTTGGAG CTTACCTTG TAACCACGTG
183481 GCGGTACTTT CTCTTGGTCT CTGCCATCCA GGGAACAGGA ATTTTGGGGT TTATGTAATA
183541 GTTAACTCTA AAAATTATCT CAAGCCATTG CAAGCTCAAA ATTGGCTGCT CTGGACCCCT
183601 TCTGGGAAGG GCAATGGAAA CTAACCAGTG TTGTAGCTCA GCAGCTAAGG ATTTGTGATT
183661 TTATAATGGC GGCCAAGGTT CAATCCTGGC TTAGGGAATG AGTACTTTCT GATTGATATC
183721 TGTGTGACCT TTACCATTTG TTGATTCTGT TCTCTTCCCC TCCACACACT GTCTTGAGTT
183781 TTCTCTCTC TGAGAACCTG GGAGATTATC TTTGGTAAAG TTCAAAAGCC AGAAATAATG
183841 GCCGTGTGGG ATGGCTAAAG TTGAGTAATA AGAACTTAA AAGGACTCCT TTTTTTTTTG
183901 CTTTAGAGTG CTATGGTTTA TGGTAAAAAG CTTAATTAA AGTGGATATT CAATCTCTAA
183961 AAGCCTGGGA CTCCTTGGGA AAAGCAGAGG AGGCACCACA GACCCCATTT TGGGAAAACC
184021 TCTGTTTTCC TCATGAAACC CCAGGAAGTG GAAGTGGATA GATCCTTCG AAAATCTAAG
184081 GCTCTGTTTG GCTTTGCATT ATGTTATCTG ATGTTTTTGA CTTTTGGGGG TATCAGAAAT
184141 TACTTTGCAT TATGAGGGAG ATCTGGTGTG TAATAACCAG GTAGGAAATA TACTTCTGGG
184201 GATAGCTAAA GGCAAAATATA GGTGAATACT TGGCTATTTG CACTTTTGGG TCACAAGAAG
184261 CATTCTCTTG ACTACCTAGA AGGTATGGAA ATGTCTCCAT CCCACCGAG AGATAAGATT
184321 CCCAGGGGAG ATGGCTGATC CCCCCAAGA GGGCTGATTC CCTCTTTTGG GATCCAGGAT
184381 CTGGTATAAA AATGGGACCC TGGCCAGGCA CAGTGGCTCA CGCCTGTAAT CTCAACACTT
184441 TGGGAAGCCT CAGAGTTATG AATGTCTCAC CATACTGACA CTTTGTGACT GAGCTCCTCT
184501 CTACCCCTGA CACAAGAGAC CCTAATAATT AGACAGGAAT ATCATTGCCC CTATTTAGTC

Figure 2 (Page 57 of 74)

184561 TGAAGAAAGTT ATAGAAGATG GATCTTTATC CCACTGCAAT CCTTAGGATT AAGGGTTCCTC
184621 TGGTAAAAAGG GAGTGGGAAA ATATGTCAGA GGCATTTGAA TCAGAGTGAC TCCATCTTGA
184681 ATAGGGGCTG GGTAAAAATA GGCTGAGGCC TGCTGGGTGA GGTTAGGCAT TCTAACAGG
184741 AGTTTAGTCA CAGGATGAGA TAGAAGGTTG CACAAGGTAC CCGTCACAAA GACCTTGCTG
184801 ATAAAAATAGG TAACGGTAAA GAAGCCAGCT AAAGCCCACC AAAACCAACA TGGCCACAAA
184861 AGTGACCTCT TGTCATCCTC ACTGCTCATA TACACTAATT ATACTGCATT AGCATGCTAC
184921 AAGACACTCC CACCAGTGCC ACGACAGTTT ACAAATACCA TGACAACATC TGGACGTTAC
184981 CTTATATGGT CTAAAACGGG GAAGAACCCT TAGTTCTGGG AATTGTCCAC CTCTTCTCTG
185041 AAAAATTCTT GAATAATCCA TTAGTTTAGC ACATAATCCA GAAATAACTA TACGTCTGCT
185101 TATTTGAGCA GTCCATACTG CTGCTCTGCC TATGGAGTAG CCATTCTTTT CTTTTATTTT
185161 TATTTTTTAG ATAAAGACTC GCTCTGTCAC TCAGGCTGGA GTCTGGAGTG CAGTGACGTG
185221 TTTTGGCTCA CTGCAACCTT CACCTCCCGG GTTCAAGCAA TTCTCTGCC TCAGCCTCCC
185281 AACTAGCTGG GACCACAGGT GGGTGCCACC ATGCCTGGCT AATTTTTGTA TTATTAGTAG
185341 AGATGGGGTT TCGCCATGTT GGCCAGGCTG GTCTCGAACT CCTGGCCTCA AGCGATCCAC
185401 TTGCCTTGGC CTCCCAAAGT GCTAAGATTA CAGGCATTAC CCACTATGCA TGACCCATTC
185461 TTTTATTTCT TAACTTTTTT TTGTTTTTTT GAGACAGAGT CTCACTCTGT CACCCAGGCT
185521 AGAGGCTGGA GTGCAGTGGT GCGATCTTGG TTCACTGCAA CCTCTGCCTC CTGGGTTCAA
185581 GCGATTCTTC TGCCCTCAGTC TCCTGAGGAG CTGGGACTAC AGACATGTGC CACTACACCC
185641 AGCTAATTTT GTATTTTITAG TAGAGACAGT GTCTTGCCAT GTTTGTTCAGG CTTGTCTCGA
185701 ACTCCTAACC TCAAGTGGTC TGCCTGCCTC AGCCTCCCAA AGTGCTGTGA TTACAGGCAT
185761 AAATCACTGC GCTCGGCCCT TCTTTACTTT CTTAATAAAC TTGTTTTTAC TTTACTGTAT
185821 GGACTAGCCC CAAATTCCTT CTTGTGTGAG TTCCAATAAC CCTTTTGTGT GTGAAAGAAT
185881 TTATGGCTGC GTTTCAGGCT GGAGCAAGCT GGAGCTCATG CTGCTGCTCA GACTGGAGCA
185941 TGCGTGATCT GTGATCCAG TAAGAGGATC ATGGTCACTC CAGCCTGAAC GACAGCATGA
186001 TATCTCATCT GTAAGAAAAA AAAAATTACT AGAGGGCTTT AACAGCAAAT TTGAGCAGCA
186061 AAAAGAAGTA ATCAGTGAAC TCAAAGATAG GTCAATTGAA ATGATCTACT CTGAAAAACA
186121 GAAAGAAGAC AGAATGAAGA AAAAGAAATA GAGCCTTAGA GACAGGGGAT ACCATCAAGC
186181 ATACTAATAT ATGCATAATG GGACTCCTAG AAGGAGAAAA GTGAGAGGAC AGGGAGAGAG
186241 AATGTTTGA GAAATAATTT CTCAAAGCTT CCCATGTTTG GCAAAAAAAC ATTAAGTGC
186301 ATACATATTT TAGGAGCTCA ATGAATTCCA AGTAGGATAC ACTCAAAGAG ATCCATACCT
186361 AGACACATCA TAATCAGATT ATCAAAAGAT GAAGAAGATG AATCTTGAGA GCAGAAAGAA
186421 AGGAACAATT CATCACATAC AAATAGTACT CAAAAGATGT CTGGAGTAGG TATACTAATA
186481 TCAGACAAAA TAACTTTTAA GATAAGCATT GTTATAATAA ATAAAGAAAG GTATTTTGTGTA
186541 ATGATAAAAG TGTCAATTCA TCAAGAAAAC ATAACATTAT AACATACAT GCACCTAACA
186601 ACAGAGCCCT AATATTCATG AAACAAAAC GACAGAATTG AAGGGAGAAA TAGAAAATTC
186661 GACAATAATA GTTGAGAGACA TCAATACCTC ACTAGTTAGA CAAGATCAAC AAAAAAATAG
186721 AAGACTTAAC ACTTGAAAAAC ACCTAACCTG ACCCTAACAT AAATCTATAG GTCCTACAC
186781 CCCAAAACAG CAGAAATAAC ATCCTTCTGA AGCTCACATG AAACATTTTT CAGGATAGAC
186841 TGTATATTAC TTCATGAAAT AAGTCTCAAT AAATGTAAAA GGACTATAAT AATAGAGTAT
186901 ATATTCTCTG ACCAAAGTGG AATGAAGATA GAAATCAATA ACTAGGCTGG GCGTGATGGC
186961 TCACGCCTGT AATCCCAGCA CTTTGGGAGG CCAAGGCGGA CAGATCACGA GGTCAGGAGT
187021 TTGAGACCAG CCTGACCAAC ATGGTGAAAC CCTGTCTCTA CTAACAAAAT ACAAATAA
187081 GCCAGGCTCG GTGGCATCTG CCGTAGTCC CAGCTACTCG GGACACTGAG GCAGGAGAAT
187141 CACTTGAACC CAGGAGGCAG AGATTGAGT GAGCTGAGAT CGCGCCACTG CATTCAGCC
187201 TGGGAGACAG AGCGAGACTC CATCTCAAAA TTAAAAAATA AAAAGAACT AGAAAAATAA
187261 GAACAAATCA AACCCTAAAGC AAGCAAGAGG AAAATGAAAA ATTTCAAAGC AGCCAAGAAC
187321 AAAAGGCACA TTATGTACAG AAGAACAAGT GTATAGATCA CATATTTCTC ATAGACACAA
187381 TATAAGCAAA AAGACAGTGG AGCAAAATTT TTTAGATTAA TGAAAGACCT ACAATTCTGT
187441 ACCAAGCAAA AAAACTCCCC CCAAATGAGG GTGAAATAAG ACAATTTAAT ACAGAGAAAA
187501 GAGGAAGGAA TTTATCTAGT CATATGTGAG AGTTTTATGA TACATTTTGT ACTGTATATG
187561 TGGATGTTTT CTATTTTCATT TAAAAAATCA ACCGTGCAAT TAAATGGTAG ATTGTCTTGC
187621 TTCTTTTTTGA TTGACACAGT CATTAATACTA AATATTGTAG TATTTTTTTA TCTCCCTGCC
187681 TAAAGGCAAT AAACATCTAA TCAGCAGACT AGAACAATAA AAAATATTTT TTAAGAGTCC
187741 TTTAGGCAGA ATGATAAAAG TCCCTTAGGC ATATTGAAAT TCCTATTTAT ACAAAGGAAT

Figure 2 (Page 58 of 74)

187801 AAACAGTACT AGAAATTGTA ACTATGTGAG TAAACAGATA ATATTTTTTTC TCCATAAAAT
187861 GTGGTTGACT ATTTTCACAA AAATAGTTAA CAATGTAATG TGTGATTTAT AGCATTTAAA
187921 AGTAAACAG GCCGGGCACA AAGGTTCTGT CCTGTAATCC CAGCACTTTT GGAGGCCGAG
187981 GCGTGCAGAT CACTTGAGGA CAGGAGTTCA AGACCAGCCT GGCTAACATG GCAAAACCCC
188041 ATCTCTACTA AAAATACAAA AATTAACCAG GCGTGGTGGT GCACGCCTGT AATCCCAGCT
188101 ACTCTGGAGG CTGAGGCACA AGAATCACTT GAATCCAGGA GGTGGAGGTT GCAGTGAGGC
188161 AAAATTATAC CACTGTGCTC CAGCCTAGGC AACAGAGCTA GACTCTGTCA CACACACACA
188221 CACACACAAA AGAAAAGTGT ATGACAACAA CAGTGCAAAA GAAGCGGAAA TGAAAATAAT
188281 GTTATTTTAT ATAAGTGGTA TACTTTTAGA TGAACACGA TAAATTAATG ATGTATACTA
188341 TAAACTCTAA GGCAACCACT GAAATAATGA AACGAAGAAT TATGGCTAAC AAGCCACAAA
188401 AAGAAATAAA ATAGAATGAG AAAAAATATT TAAGTTGTTT AACAGATGGG AAAAAAAGA
188461 GGAAAAAGAG AACAAAGAAC AGATGGGACA AATGGGAAAAG TAATAGCAAG ATGATAGACT
188521 TAACTCTACC CATATAGATT ATCACACTTA AGGTAAATGA TCTAAATACT CTAATACAAA
188581 AGCAGAGGTT GTCAGATTGA ATTAAAAAAA CAGACAACAA CAAAAAAAAG CAAAAAAGA
188641 GCCACAACAT GCTGCCTACA AAAAATTCAC TTTAATATAA AGACACAAAT AGTCTAGAAC
188701 ACCATCACTT TTAACCTTAT TTAATCAAA CTTCTAACTG ATCCCTATTT ATTTATTTAT
188761 TTATTTATTT ATTTATTTAT TTATTTTGA GACAGAGTCT GACTCTGTTG CCCAGGCTGG
188821 AGTGCAGTGG CACCATCTAG GCTCACTGCA GCCTCTACCT CTCGGGTTCA AGCGATTCTC
188881 CTGCCTCAGG CCTCCCAAGT AGCTGGGACT ATAGCACATG CCACCATGCC CAGCTAATTA
188941 TTATATTTTT AGTAGAGACG GGGTTTTGCC ATGTAGGCCA GGTGGTCTC AAACGCCTGA
189001 CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCCA CAGCACCCAG CTCCTCTTCA
189061 TTTATCTCTG CTACGCTTCC TCCAATCCAT TTTGTGCATT TGATGATTTT GCCAGTAACT
189121 TCTTTATTTT TCTGGTAAAA TTACTTATGG GTCAGTGGG ACTGGGATGT TCTTTCTTCT
189181 AGAGGGGGTT TGTGTCTGCT TTTGCCAGGA AGCTGGGGTA CCACCAGTCA AGTATTACTT
189241 TAAACTCAAT TCATGAATTG AGACTTTTTT TTTTTTTTTT TTTTTTACGC AGAGTCTTAC
189301 TCTGTCAACC AGGCTGGAGT GCAGCGGTGT GAACATGGCT CACTGCAGCC TCAACTACT
189361 GAGCTCAAGC AATCCTTCTG CCTCACCATT CTGTATAGCT AGGACTACAG GTGTGTGCCA
189421 CCATGCCTGA CTAATTTTTT AAATGTTTTT TTTAGAGATG GGGCTCACTT TGTGCCCCAG
189481 GCCGGTCTCG AGCTCCTGGG CTCAAGTGAT CCTCCCACCT TGGTCTCCCA AAGTGCTGGG
189541 GTTACAGGCA TGAGCCTCTG TGGCTAGCCA AGACTTTTTTA TTTTTTAGCC TAAATGTGTA
189601 TAAAAGTTGG CTTGTGGTTA CAACTTATCA GGATTGATGA TCTCTCTCTC TCTCTCTCTC
189661 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
189721 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTTATCAT CTTTGGGAT
189781 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAGAATCT
189841 GGACTTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
189901 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTTGATGTG CTTTATTGTC ATTATTATAT
189961 AGTACAATGT ATTTTGTAAT TTTTGTGAT TTGTTTGGAG AGATTGATTA ATTAGAATGA
190021 TGTTTAATTT CCAAATATGT GTGTTTTTTT CCTACATTTT TTATTTTAT TGATTTCAAA
190081 TTTATTTCTA CTGTAGTCAG ATTTAATAAT TCATTTATTT TTATTATTTT CATTTTTTTA
190141 GAGACAGGGC CTTTCTGTGT TGCCAGGTT TGTCCCAAAC TCCTAGTCCC AAGCAGTTCT
190201 CCTGCCCTCAG CCACCCAAAG TGCTGGGATT ATAGGCACGA GCCACCCGTG CACAACCAAC
190261 AATTCATTTA AAAAGTGGGC AAGTGAAGT AACAGACATT TCTCAAAAGA AGGCATACAA
190321 TTGGCCAACA AATATATGAA AGAATGCTCA ACATCACTGT ATTAGTCTGT TTTCTAGCTG
190381 CTAATAAAGA CTTAACCTGA GACTGGGGAA TTTACAAGAG AAAGAGGTTT AATGGACTTA
190441 CAGTTCCACA TGGCTGGAGA GATCTCACAA TCATGGTGGA AGGCAAGGAG GAGCAAGTCA
190501 CATCTTACAT GGATGGCAGC AGGCAAAGAG AGAGCTTGTG CAGGGAAACT CCCGTTTTTA
190561 AAACCATCAG ATCTCGTGAG ACTCATTCAC TATCATAAGA ACAGCATAGG AAAGACCCGG
190621 CCCATAATTC AGTCACCTCC CACTGGGTTT CTCCCAGGAC ACATGGGAAT TGTGGGAGTT
190681 ACAATTCAAG ATGAGATTTG GGTAGGGACA CAGCCAAACC ATATAAATAA CTAATCATCA
190741 GGGAAATGCA AATCAAAACC ACAATAAGGT ATCATCTCAC CCCAGTTAGA ATGGCTATTG
190801 TCAAAAAAAC AAAAAATAAC AAATGCTGGT GAGGATGTAC AGAAGAGGGG ACTCTTATAT
190861 CCTACTGGTG GAAATGTCAA TTAGCATAGC CATTATGCAA AATAGTATGG AAGTGAGGTA
190921 GGTTACATAG GGTGGTCACA GCCTCCCTTG AAAGGAAACA AGAACTTGT CAAATTGATG
190981 GAGAGAACAA ATCTCTTGAC ATTACACAAA CTGCATCTGG GGCTAGTGGT TAGAATATCC

Figure 2 (Page 59 of 74)

191041 TCAGTCAAGG AGGTAGAAGA GCAGGAGGGA AAATCCCTAA GTTCGTGCAA GTGCAGAAAC
191101 CCACAAGCTG TGTTCTCAGG TTGACATATA CTCATTTTAA TAGTAAGAAA CACACCCTTG
191161 GGTAGAGAAT TAAAAATGCTA ATAATACATG TGATGTATGT ACTAGCGTGT ATGGCAATAT
191221 TGCATGCACA TTCAAGAGAC CACCCAAAAC ATATTTAACA ACAATGCCCA TTCCCACCCC
191281 CTCATGGATA ATCACGTAGG ACTCCCATAA CGGGAGTTTC TTCAGTGTCA ATTGGTGTCTG
191341 AAGTAGCCGA CCCTGACTCT GCTATCAGCG TGTACTTTCA CCTTGCAATA AACTCCTTTG
191401 CCTACTTTTA CTTTGGACTG GCTTTCAAAT TCTTTTGTGC AGGGAATTCA AGAATCTGAA
191461 CCAGCCCACT GACAACAGAG GTTCTCAGA AACCTAAAA TAGATCTACC AGATGAGGCT
191521 GAAAATCTGC TACTGGCTAT TTATCCAAAG GGAAGGAAAT CAGTATACAA AGAGACACCT
191581 ACATCCCCAT GTTTATTGCG TCACTCTTCA CAAGAGCTGA TATATAGAGT CAACCCTAAA
191641 TGTTCAATTAA CAGACAAATG GATAGAAAAT GTGGCATATA TACACAATGA AATACTATTT
191701 GGCCATGAGA AGAATGCAAT CTTGTCAATTT GTGGCAACGT AGATGAAACT GGAGAACATT
191761 ATGTTAAGTA AGATAAGCTA GGATTGGAAA GATAAATACT ACATGTTATC ACTCATATGT
191821 GAAAGTAGAG AAAAAATTTT AGCTCATGGA TTTAGAGAAC AGAACTGTGG GTACCGGAAG
191881 CTGGGAAGGG TAGCAAGGAG GGGAGGATAG GGAGAGGTTG GTTAATGGTG ACAAATTAAC
191941 AGCTAGATTG TAGAAATGAG TTCCGGTGTT CTGCACCATT GTAGGGTGCA TATGGTTAAC
192001 TCTCATTTAT TGTATATTTT CAAAAAGCTA GAAAAGAATT TTGAATACTC ACAACAAAAT
192061 AAATGATAAA TGTTTAAGGT GATGGATATA CTAATTACTC TGATTTGATT ATTACACATT
192121 GTGTACACAT ATAAAAATAT CACTCTTTAT CCCGTATATA TGTACAGTTA TTATATGTCA
192181 ACTAAAAATA AAAGAAAAAA AGAATATGAT CTATCATGAT GTATATATCA TGTGTACTTG
192241 AGCAAAATGT GCATGCAGAT ATTGTGTATA ATGTTCTATA AATCAATTAG CTCAAGATAA
192301 TAGATAGGAT TGTTCAAGATC TTCTGTGTCT TTAATGATAT TTTGTCTAGT TATTGCATCA
192361 TTACCAAAAA AAGGGTGTTA AACTCTCCAA ATGTGATTGT AGAATTGTCT ATTTTGTCTT
192421 TTCTTTTCCA TTTTACTTTT ATGTATTTTG AAATCTGTGT ATGACATTTT GCTATGTATT
192481 TTAAACATTC GTTATGTATT TTGAAACTCT GTTGTAGAA TCATACATTT ATGATTATTA
192541 TGTTTTCTTG ATGAAATGAC CCTTTTCTAT TGTCGTTGTT TTTGTTTTTT CTGAAATGGA
192601 GTCTCACTCT GTTGCCAGG CTGGAGTACA GTGGCACAAT CTTGGTTTAC TGCAACCTCC
192661 ACCTCCTGGG TTCAAGCGAG TCTCCTGACT CAGCCTCCAA GTAGCTGGGA TTACAGGCAT
192721 GTGCCAGCAT GCCAAACTAA TTTTGTATTT TTATTAGAGA CAGAGTTTCA CCACGTTGGC
192781 CAGGCTGGTC TCGAACCTCT GACCTCAGGT GATCCGCCCA CCTCGGCATT TTTATTTTAT
192841 TTTATTTTCT TGAGACAGAG TCTCACTCTG TCACCCAGGG TAGAATGCGG TGGTGTGATC
192901 TTGGCTCACT GCAACCTCCG CCTCCTGGGT TCAAGCAATT CCCATGCCTC AGCCTCCCGA
192961 GTAGCTGGGA TTACAGGCAC ATGCCACCAT GACTGGCTAA TTTTGTATT TTTAGTAGAG
193021 ATGGGGTTTT TCTATGTTGG CCAGGCTGGC AACTGACTCC TTTAACAATA CAAAATATCA
193081 CTCTGTCTCT GGTAACACTC TCTGTCTTAA ACTCTATTTT AGCTGTATT ATTATAGCCA
193141 TTTTAGTCTT TTTATGCTTT CTGTTTGCAT AGTGTATATA TTTTAATATG TTTATTCTCA
193201 AGTTATCTGT GTTTTATAT TTAAGATGTT TCTCTCTAG CCAACGTGTT TGGTCTTTGC
193261 ATTTTAAAGT CGATTCTAAC AATCTTTGCC TTTCAATTGA AATATTTACA CCATTAACAT
193321 CTAACATTA CATTTATTTT TCTTTCCACA GTACACTGGC TAGCATCTCC CATATAATAT
193381 TGAACATAAA GTGTGATAAC TGACATCCTT ATTTCAATCC TACTCTGAGT GGAAAGGGCA
193441 GGGGTGGAGA AAGCATTCOA CAATTTGCCA TAATTATAAT TCTTTTGTG AACTGTTTTT
193501 CTTCTGCATT AAAAAATATC ATTACATTTT GCATGAATTA TTAGGAGAAA ATATTTTCCA
193561 ATTTTCTCTG AAAATGCCAT AACCACGCTC CTCAATTTTG TTTCCATCTT TCTTCCACAT
193621 TTTACATAAC CTACATAAGA GACACATTAT CAAGTATATT TTACATGGCT TCTCAGTGTC
193681 TTCTCTGTCT GCTAACAGGT TTACCAAGAG ATGGCACTCT TGTATTTCTG GTGGCTATGT
193741 CCATATCGTT TTGCCTTTAA GACAGCGTAA CTACTTCTTT CACCAGTATT AAAGACATGT
193801 ACATTTGATC TGGTTCTTGT GGATGATTTT AAATGACTCA AGCTAATAAT CCTAATTTTA
193861 CCTAAACACT CCATTATTTT AAAATGTATT CCTTTATGCC CACAATAAAC ATTTATTGAC
193921 ATTAGGCTGG ACATTAGGCT TCTCTATGGC AGACATTAGG CTGGACCTTA GCCATATATC
193981 TATTGAGGGA AAAAAATTA TTTTCTATAT AAGTTTCCAG AAAGCCAAGA TGTGTTTTAA
194041 AAACAAAACA AAACATTACA TTCTAAATGC TGTAACAAGA TAAGAAAAAG TGTGAGGCT
194101 GAGAGAAGAA CAAAGCAGCA AGCAACTCCT GGAAGGACCA CTGCTGCAGA GGTAAATACT
194161 GGTGAACCAT GTTTTGGAGA AGGAAAAGGT CACCAAGAGA AGGAGGGGGT CCAGGGTGTT
194221 CAGAAAGATT GCATGCATAA AGATCAAGGG TAATAAAAAA AATTCCTGAT TATGTAAATG

Figure 2 (Page 60 of 74)

194281 TGAAGTTCCA GGACCATGAG CTTGGAGAGC ATGAAGTACA GGAGGAGGGT TGGTTTCAAA
194341 TAAATCTGGG AATGAAACAG TGAAGCCTCT GGCAGAACTC ACATCTCTTT CCTCCCCCTCT
194401 TCCTTGACACA TTCCCTTTTAT GGAGTAATTG CAGGGATGGG AAAAGTTCAA AACCACCACT
194461 GAGCCTAGGA AGTGCTAGGG TAAAGTGGAG AATGAACCTG CGTGATTTGC TCATCCTAAA
194521 CTAGGTTCTT CTAGGAGAGC CCTTCCCCAT AAAATCTGCC CTCTCGAAG GGGCCAGAC
194581 AGCCTAAGCT CACCTCCCAA AGACCCCTTA CTTGCTGACT GAATCTGATT CCACCCAGAC
194641 ATGGCCTAAA ACCCTTCCAT AACTCTATAG CCAAATTCAA TTTTAGACAG GCCTCATACC
194701 AACCTTTCTT CCTCTAAGTC TGCCACCCTA GGCAATTCTC AACATTCTCT ACACACTTTG
194761 GGGCCATAGA CGTGCTACCA AGTCTCCAGA CCTAGACCTG ATGGAGCAGT GCTGTAATGA
194821 GACGACCACT GGCCTTTGAA CCAGACCTTT CTCTGTGGCT CCTATGCATC TCCAACCTGT
194881 TTTGAGCACT GCTGCCAAGA CATCTTTGGC ACTTTGTTGT GAAGTTTAA AACTGAACCTA
194941 ATCTACAAAA CACCTAACCT TTAATAATTC ATTGTCAATT CATATCATGA AAGATAAAGA
195001 AAGGCCAGGA AACTGTTCCA GGTTAATAGA GACTAAAGAG ATAGCAACCA AATGCAATTT
195061 GTGATCCTGG ATTGAGGGGA AAAAGTGTG TCAGAGACAT GATTGGGACA GCTGGTAAAA
195121 TTTGAATTTG AATTTAAAGA TAAAGTATTG AGTAATATAG GAAGATGATT ATCTGCAACT
195181 TTCAAATGTT TCAGTAAGTA TATATATATA TAAAGAGATA TAAAGACATA TAAATAAATA
195241 GATGGATAGG TAGAGAAAA GCAATGTAT AATATTAACA ATCTAGGTAA AAAGTATATG
195301 AGTGTTCTTT GTACTGTTTT TCTGATTTTT CTATATGTTT GAAATCATTT TAAAAAAGA
195361 AGGTTTTTTG GGTTTTTTTT TTTGTTTTTT GTTTTTTAGAG ACAGCATCTT ATCTGTCTAC
195421 CCAGGCTGTA GCTCAGTGGC CCAATCATTG CTCACTGCAG CCTCAACTTC CTGGGCTCCA
195481 GTAATTCCCC CTACCTCAGG CTCATGAGTA GCTGGTACTT CAGGTGTGCA CCACTGCACT
195541 CAGCTAATTT TTATTTTTTTA AATTTTTGTA GAGATGGCAT GTTGCTATGT CACCCAGGCT
195601 AGTCTCAAC TCCTGCCCCC AAGTGATCCT CCCACTTTGG CTCCCAAAG TGCTAGAATT
195661 ATAGGCATGA GCCACTGCAC CCAGCCCCAA ATAAAAAGT ATTTTATTTT AATTAACATA
195721 TTAATTTTGA GTCAGAGTTT CACCTTTGTC ACCCAGGCTG GAGTGCATG GCATGATGTT
195781 GGCTCACTGC AAACCTGACC TCCTGTGTTT AAGCGATTCT CTTGCCCTCAG ACTCCTGAGT
195841 AGCTGAGATT ACAGGTGCCT GCCACCATTG CCAGCTAATT TTTATATTTT TAGTAGAGAC
195901 GGGGTTTCAG CATGTTGGTC AAGCTTGTCT CAAACTCCTG ACCTCAGGTG ATCCACCCAC
195961 CTCGGCCTCC GAAAGTGTG ATGAGCCACC ACACCCGGTC TAAAAAGTAT TTTAAAACCA
196021 CAGTCCCACT CTACCTTGTC CTACACTACC AGGGGCTAGG ATCACCCCAT GTCTTCTAGG
196081 CTATGAGATA GAGGAATCCA AGGAAGAAGA TAAGCTACTT GGTTCCTCTA TAGGGTCTTG
196141 TGTGTGCTCT CATGTGCTCT CTCTCTCTCT CTCTCTCTCA CACACACACA CACACACACA
196201 CACACACACA CACACACATG AATACCAGAG CTATCACTTT CCCAGTCTAG TACTCATCTC
196261 ATCCCAAGGG TTTTGTGTTG TAGTGGTTTG CTCATTTGTT TGTTTTGTTT GTTTGCTTGG
196321 ATTATTCTTT TTCTCTTTTT GCAGCTGAAG GGAGAATTTT CAGGCCAGCC CTTTGGCCAT
196381 TAGAGTTACA GTGCCTCTAT TCAGGCTTCA TAGAGAGACC TGGGATTCTG TAGTGGGGGG
196441 CTTTATATCCA GTTCAAAATA ATGCATTCTC ACCAAGATGT ACTTTGAAAT AAAACAATAC
196501 TAAAACACAA AATTTTATTT ATGCTGAACA TTGAATCACT TTTTCTGTGA TTTTGTGTAG
196561 AAAGTTATAC ACACACAAAC ACATTTGCTC CTGCTTTGTT TATTGGCCCA GGGGTATGTT
196621 TGGTAATACT TCATCAGGCA TGAGTAGTAC GTCTTGGAAG GTGTGGTCTA AAGCCTAGAC
196681 TCCTATCTGC TTCCTTCAGC ATTCTCCAGT GTATCTGTCA TCTGTCTACC TTAGGATGGG
196741 GTCTCCAGAA CTTCCATTCA CATTTAGAAG AGGGCAGCGG CTTTCTATGG AAAATATGAA
196801 CTCTCATTCA TCTCTATTCC TTCTTCTAGC TATGGTCCAG CTCAGCTGTT TGAATAAAG
196861 TATCTATATG AAGTCTGCGA ATGGTTCTCA GACTGTTGA ACATTAGAAT CACCTGAGTA
196921 CCTTCTAAAA TTCTTATTAC CCAGGGCATA TCTCAGAATG AGTACCACAG GGTAGGGATA
196981 GGATTAGGGA TCATGATCTC TGGAGTCTGG TTTAGGCACT AGTGCTGTTT AAAACTACGT
197041 TCATGAGGTG GAGGTTGCAG TGAGCCGAGA TGGCGCCACT GCACTCCAAC CTGGGCGACA
197101 GAGTGAGAGT CTGTCTCAAC AACACAAAAC AAAAAAACC AACTACCCTT GTGATTTGAA
197161 TGTCCATCCA AAATTGAGAA CCATTAGGTA AGGCCAAGCT GTATAATTAA AGAGCAGTTT
197221 TCATTTGTCT GGTGTGGTGG CAGCTTTTTG ATAAGGGAAG TATTGTTGCC ATCCACATAC
197281 CTGAGCCTCA CTCCTGAGAA CACTGGTGTG TATGTTGCTA AAATCCCCA GGTGATTCTG
197341 AGGTTCTTTC CTGGATAAAA ACCACTGACC CTGGGAATGT ACCCACTGCC AATCTCCTGC
197401 GTAAACCTTG GATACTGGGA AGCCTACAGT TGAAAATATT GGGCTTGAGA TCCTGAAACA
197461 AATCTGTAT TTCATTAAAG CTAATATTTG GTACAGTGCA GCAAATCAAG GGAATTTTGG

Figure 2 (Page 61 of 74)

197521 TGGCTGAGTT CTTTTAGAAC TTTTGCATTG AAATAGGTTC AAGCAGCAAT AAGTTAAAC
197581 TACAACCTCA GCTAAAGGAT TAAAAGACAC GTGAGCTGGG TAGGATGAGG TCTAAGATTG
197641 GGTGTGGCGG CTCATACCTG TAATCCCAGC ACTTTGGGAG ACTGAGGTGG GTGGATCACT
197701 TGAGGTCAGG AGTTCAAAAC CAGCCTGGCC AACATGGTGA AAACCCATCT CTACTAAGAA
197761 TACAAAAAAA TTAGCTGGGC GAGGTGCCAG GCACCTGTAA TCCCAGCTAC TGGGGAGGCT
197821 GAGGGAGGAC AATCACTTGA ACTCAGGAGG CAGAGGTTGT AGTGAGCTGA GATCGCACCA
197881 CTGCACTCCA GCCTGGGTGA CAGAGCAAGA CTCCATTTAA AAAAATAATA ATAATAATA
197941 CAATAATAAT AATTCAGACA TATCCAGGCA TCAAACAGAT ACCTGGGGCA GATGAATAGT
198001 CTTGAGATTC AAGTCACACA TGAAATTTAG GTGGAAAATG ACATTGGAGA AATTTGAGAT
198061 TATGATGAAT GGAAATTTT CAAAGAGGAA TTTTCAGGCTC TGTTCTTGAG GGGATAGATG
198121 GACTTCCAAC AGCAATAACA CAGGATTAAT GAGGACTTGG GATGTTACAT AAATTAGAGA
198181 TGTTAGATGG ATAAAGAGAT AAAAGTACTC TCTCTAAGAA CATGGGACCA GAGATAGGCT
198241 CACTTCTAAC CATCAGATAT AACTAGCAGA CTAAACGGTC TAAAAATAAA AATCATGCC
198301 CACTCCTGCT TAAGACATTT TAATTACTCT CAGTAACTCT TCAGTTTTTC TACTGTGTTA
198361 TCTTTAACTA CAGGGTTGGT CTGGGTGTGC AACACAAGAA AGCCTGGCAT ATACATGGAT
198421 TCAAGTGAT GCCATGTACA GGTATCTTT CATGTACTAT TTCATGTATT CTTTTTCACA
198481 TCTGTTTTTT CCTTCATTGA AGTCAATGGC TGATATTAGA TTCTACTATT CATGTGTACT
198541 AGTTATATAT AATTGTTACA AAACAAATTA GCAAAAACTT AGTGGCTTAA AGCAACACAC
198601 ATTTATTATT ACCTAAGGTC TGTGGATAGA AGTTCTGACA TGGCTTAACT GGGTTCCTTG
198661 CTTCAAGCCT CATGTGGCTG CAATCCAGGT GTTGGCTGAG TCTGAATTCT CATCAGAGGC
198721 TTGATTGTGG AAATTTCCAC TTCCAAGCTC CCTCAGGTTT GTTGAAAAAT TCAGTTCTTT
198781 GCACCGGTAG AAGCTTCTTG GTAGAGGCTG ATTCAACTTC TAGAGGCTGT CTGCAGTTCC
198841 TGTCACCCAG GGTGGAGTGC AGTGGAGCAA TCATAGCTCA CTGCAGCCTT GACCTCCCAG
198901 AATCAATCTG TTCTCCCACC TCAGCATCCT GAGTAGCTGG GACCACAAGT GTGTGCCATC
198961 ACACCTGCCT AAAAAACAAA CAAACGAAAA AAAACCCCCA GAGAACTTTG TAGAGACAAG
199021 CTGGTCTGGA ACTCCTGCGC TCAAGCAATT CTCCTGCCTT AGCCTAAAAA TTCTGGGATT
199081 ATAGGTATAA GCCACCATA CTGGCATATG GCAAGTCTTG AGCAGGACAA ATACAGATGA
199141 TTTATGCTG TCTTCCATGG TATCTAGGT TATTGTTGAG ATGGTCCTCT ATTGCTTGT
199201 TCCATCTATT GATTAGATAA AACGTTGTTT CTTCTGTTAT TTTTCAACAG TAGCTTTTAT
199261 GTGTCTCTCT TTATCTTAAA ATTCTAACCA AAGAGCTGCT CTTTTCTTGG TGTACTTTAC
199321 CTTTGGTTGA TCCTTCTTAA CCTCTTCTTG CCTCTGGGG CCTAAGATGA GGGCTGTTAT
199381 CAGATGTGAG TCTATGGGAA AGCAAGCAAG AGGTTCTTCA GCCTCCGTTC AGCCTTAAAT
199441 GTCTAGGTAG AAATCAGTCA TGGCCCTTCC AATGTGGTAC AGACCAGATC ACAGAGACAG
199501 GGGTCTCAGC CAAGGTCTTG TGGCCTAAGC CTTATAGAAA TAATGAGTGT TTAATTACTT
199561 GGAGAACTCC CTTGGAATAT CTTTTTTTGT GAACCTGAGG CAACTTTTGG TGATTTCTTG
199621 ATGTCTTGGG AATCTTGGTC TAGAGCCATT TCAACCTGAT TTCTTTTCAT GTCAGTGGCA
199681 TTTTGTGACC AGATAGTAAA TAAGTTCTAT GATGTTCACT CAGAGAAATA CAATGACTTA
199741 TGATGTGAAG CTTCTGTGGT TCAGCCCTTA CTTCACTTC ATTCCCTCTT ATCTGCATCT
199801 GTCTCCTGCT TGGGAACAAA AGTCTGGCTT CATTCATGA CCCCCACGTT GAGTTTCTTA
199861 GTAGCACTTA CTTTTCATTT AGGAGTGTCC TCACTTCTAT CCATCAGACA TAACTAGCCG
199921 ACTAAACAGT CTAAATATAA AAATCATGTC TACTCCTGC TGAAAAATTT TTAATTACTC
199981 CCCATCATTT AATTTTTTCT ACTGGGTAT CTTTAACTTC AGAGTTGGTC TTGTGTGCAA
200041 CACAAGAAAA CCTGGCATAT ACATGGATTC AAGTGTATGC CACGTGCATG TATTCCTTCA
200101 TGTACTATTT CATGTATCTT TTTTACATC TGTTTTTTCC TCTAAAATTT ATTTCTTTT
200161 AAAAATGAAA ATTTTGCATT TGACTAAATT TGTCAAATTT AGTCAAATTT GTTTAAAACC
200221 ATTTTTAAAA TGTTTCCCGA AGTTTTGAGT GAAGTTAGTA CTTCAGAAAA ACTGTTTTGT
200281 ATTTTTTCATG TGACCTCAGT GCACCTGCTG GCATTTCCAT TTCTGCGTCC ACACACATTT
200341 GTTTTGAGGA AATATAGGAA CGACAAGATA AAGTCAAGC TCCTGGACAT TGCATAAAAG
200401 ACCGTCATGA CCTGGTCTCG TTGACTTCCC TAGATTTCCC GCTATTTCTT AAGTTGAGAT
200461 TTTTGGTTTG GATGCTTTGT GTTTTCTTAA AATCAAATA GGTTTTTGCC TTTTATGATT
200521 ATACAGTAAA TAAATGCTAT TTGTGTGAAA CTTTAAACAA TACAAAAAAA ACCTAAGGAA
200581 GAAAGTCAGA TTCATCTAAA AATCCTTGTG GCCAGAAATTA ACTACCTTAG TTATTATTTT
200641 CTCTATCTCT CTCTCTCAAT GTATATTTGG TGTAGGTATA GGGGTGTGTG TAGTGTGTGT
200701 GTATGTATAT ATCTGTTTCT ATTCCTGTAT GTGGATGTGC ACAACGCATC CTGCTTTGTA

Figure 2 (Page 62 of 74)

200761	CACTACAGTA	CTAGCATTTT	TCTAATGTAA	TTCAATATTG	TTGAAAACAT	TTTAAAAAAG
200821	CTTGTATATA	TACACACACA	TACACATACA	TGCATGTATG	TACATATACA	CATACAGACA
200881	AAAATGTATC	CTATGTATAT	TCACACATGT	ATACACACTC	ACACGTACAT	AGAGTTTTAC
200941	ATCCATAGTT	TATAAATGTT	GCTTTTTTTT	GGTCACCTTT	TTGCTAAGTC	TTACACTTTT
201001	TTTTTTTTTT	TTGAGACGGA	GTTTTGTGTG	CATTGCCCAG	GCTTAGTGCA	GTAGCGCGAT
201061	CTCACCTCAC	TGCAACCTCG	ACCTCCCGGG	TTCAAGCGGT	TCTCCTGCCT	TAGCCTCCTG
201121	AGTAGCTGGT	ACTACAGGTG	TGCGCCACCA	TGCCTGGCTA	ATTTTTGTAG	TTTTTTTATA
201181	GAGACGAGGT	TTCAACCATGT	TGGCCAAGCT	GGTCTGGAAC	TCCTGACCTC	AAGTGATCTG
201241	CCTGCCCTCAG	ATTCCCAAAG	TGCTGGGATT	ACAGATGTGA	GCCACTGCAC	CCGGCCAAGT
201301	CTTACACATC	TTTTTTTTTAC	CACTAAACTG	TTTACCCAAA	CCTGATAACC	CAAGTCAACA
201361	GCTATTATGG	CTCACACAAT	CTTATGTAAA	CAAAGATACA	GATATATAGA	ATTTTCTTGA
201421	TTAATATTCA	GAAAAAAATG	GAGTCCCTTT	ATACGTCCTT	AGTATCTGCT	TTACTCATTT
201481	AAAAATGTAT	TACATTATAT	GAAAGTATTC	AGGTCAAATG	TTATAGATGT	GATTCACTCT
201541	TTTTTAAGTGT	GTTATTTTTTC	TGCAATGACT	ATGTATCACA	AAGTACTCAG	TCTTCCACTG
201601	ATGAAAATTT	GGGCTATTTT	CAGTTTGTCT	TCCATTTTTT	TTTCTTCCCT	TTGGATTTTT
201661	ACTCAATGTG	TTTACTAATT	TAGGAAGAAT	CAATAGTTTT	TATGGTATTA	CTTCTCCCAT
201721	TCAAGAATAT	AGCATATGGT	ATAGTATAGT	AGAGTACTTA	GTTTAATTTA	GCCAGATCCT
201781	GTTTTCTGCC	CTTTAATAAA	ATTCTATCAT	TTTCTGCCTT	TGAGTCACAT	TTTCCTTGTT
201841	CATATAATTC	TTAAAAAATG	TATAGTTTTT	ATTCTAAGGG	AACATAAAAA	CTTCTTTCCA
201901	TTTCTATTCC	TGCTTAGTTA	ATTCTACTAT	TGGGAAAAGT	AACTGTTAAA	AAAAATTCTT
201961	ATCTTTCCAG	TCAGTTCACC	ACATTTCCCT	TATACCTTTG	TACTTTAATC	CCCAGTCATG
202021	TTGAACACTT	CTTATTCCCT	ACACCAAGCC	TCAACGGGTT	TGCTCTTTCT	GGAAGGTGCT
202081	TCCCCTGTAT	TACTGACTTA	TTCATACCAC	ACATGGAGAC	TGGCGCAGCC	CTGTTCTGCC
202141	TGGGAAGCCT	TCCCCTGATA	CCCCTAGTTG	GCAGGAGTCT	TCATTTGTTC	TTTTCTAGTC
202201	ACCTGTGCAA	GTTTGTATTG	TTCATGTTTA	TCATCCTTCA	TTCTAGTTGT	CTGTCTCTAT
202261	GTGTGGTCTC	ATTCACTGGA	CTCTGAAGTC	TTATGAAGTC	ATGTCATGGG	TCAGATCTTA
202321	ATAAATTAAT	ATTGTTCGGAA	GCTAATGTCA	TGTCTAGAAT	ACAGAAAATT	TATCAAAAAA
202381	AAATATAGTA	TGTTGGCTGG	GCGCAGTGGA	TCAAGCCCGT	AATCCCAGCA	CTTTGGGAGG
202441	CCGAGGCAGG	AGGATCACAT	GAGGTCAGAA	ATTCAAGACC	AGCCTGGCCA	AAATGGTGAA
202501	ACCTCATCTC	TACTAAAAAT	ACAAAAAGTA	GCCAGGCGTG	GTGGTGGCCA	CCTGTAATCC
202561	CAGCTACTCA	GGAGGCTGAA	GCGGGAGGAT	CACTTGAACC	TGGGAGGCAG	AGATTGCAAT
202621	GAGCTGAGAT	CATGCCACTG	CACTCCAGCC	TGGGCGACAG	TGAGACTCCA	ACTCAAAATA
202681	ATAGTAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
202741	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACATG	TACAGGATGT	GCAGGTTTGT
202801	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
202861	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
202921	CCCCAACAGG	CCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACGTGTTC	TCATTGTTCA
202981	GCTCCCACTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCTTGCC	TTAGCTGTTA
203041	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTTAA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC
203101	TTGATGTTTA	TAAATGTTAC	AACCTTCTTT	ATTTTCATTAA	ATGTATACCT	TATTGAGTTG
203161	ATTTAACTGA	GTTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
203221	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTTCAAGTAA
203281	TAATGTTTAT	TAAGCGTGTA	CTGCTTAGTT	CTGTTTCAGAC	TGCTGTAACA	AAATATCATA
203341	AACCTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCTGGAG	GTGGGAAGTC
203401	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTTTGCTG
203461	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCTTTGGG	TTTCTTTTAT	AAGGACACTA
203521	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCAAAGAC	CCCTCCTTCT
203581	AATATTATCA	CTTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
203641	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
203701	AAAATGAACA	AGATCCCCCT	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTTA
203761	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
203821	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
203881	ACTTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
203941	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTCTTT

Figure 2 (Page 63 of 74)

204001	TCTTTCTCTC	TTTCTCTTTC	TTTCTTTCTC	TCTCTTTCTT	TCTTTCTTTC	TTTCTTTCTT
204061	TCTTTCTTTC	TTTCTTTCTT	TCTTTCTTTC	TTTTTCTTTC	TTTCTTTCTT	TCTTTCTTTC
204121	TTTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCCCTGGG	CTTATGCGAT	TCTCCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAGGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTGTAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCCCTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACTGCTGGC	TTTAAGGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCACTACAA	GCTGAAAAGA	AAAAGAAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTTGGCTCA	GTGAAAACCA
204901	TTTTGGACTT	CTGACCTTTA	GAAGTGTAAA	TAAATAAATA	ATTTTGTGTT	GTTCAGGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAAATAC	AGAGATCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GTTTATTTTCG	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACCTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCATTTT	ATAAGGGTTG	CGTCACACTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAATTCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCATTAG	GCTGTGGGCA	CCAAATGCAT	ATGGAAAATC
205381	TAGCTGACTT	AACGTAACTC	CTGAAGAGGA	ATGAACACCT	CATTTATTGA	GGAGCTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	CGTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGGAAA
205561	ACACTAGGAA	GTGAATATGG	GCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTGAATG	TTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTTTGAGATA	CTCTAACAGT	GAGAAGTTGA
205741	AAATGAAGTT	AAAAATTAAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CACTATTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TTGGGTAGAA
205981	GGATTATTAC	TAACTTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATTCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CACTGTGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAACGTGT	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAC TGACAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAC	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCCTGTA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGC	AGATCACTTG	AGGTCAGGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	GAGTGATAGG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GCACCAATTT	CTCAGAAAAG	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAAATC	CACTTTAAAA	AAGAAACATT	TAAAACCAAT	TTAACAACCA	ATCAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTCA	CTCCAAACTG
207181	CCAGTGGAAG	TAACATTATC	CCAATTCTTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT

Figure 2 (Page 64 of 74)

207241 TGAAACTTTA CCTGGTTTAC TCAATTTGGG AATGGCAGAG CAGAATTCAG TCCTTGAATA
207301 TCCTCCCACT GCAGGTTTCAT GCTCTTTGAT CTAGGTGTAA CATTTACTCT GAGTAAACTA
207361 GGACTCTGGG CTAACAGAGA TGAAGCAAGA CAGGCTGGAT ATTAGGAGAA TCTAAGAGCA
207421 ATCTAACGAC CATTATAATA AAATCATGAG TTCTAGACTT AAAAAAGGG AAAAACCTGT
207481 TTTTTTGCTT ATGCGTATAC CATAATATTT ACATTATTTA TTTTTTCTC AAATTCAACC
207541 TATACGGTGT CAAGTAATTT TTTTAAATAT AACATTTTCC TTTAACTTAA TTTCAATTCA
207601 TTTTCTGTG TCTACTTACA ACTTTGGCAC TAGAATTCAC AATTTTTTTT TAGAGGTATA
207661 TCTCCTTAAA GGAAGGGT CTGACACTGT TACATGTTCT CAATGTTTG CAAATAGGTT
207721 AATAATTATT CCAGTGTCTC TAAGTACATA TCAACCATGC CAGTGTTCAG CCTCCATAAT
207781 TTTATTAGT TCTGTGCTTA TTTTGGAAAA ACATTTCCCA TTACCATGAA AGACCTCAGT
207841 TTAGGATGGT TTGGTATGTT AGCCTGATTT CTGCATTCTG CTGATGCAA GGAATAGG
207901 AAACGAAGAA CTGAAATTAC CTATTGATAC AAAATCAAAG TAGCATTTGA AACCATAAAA
207961 CTTAAGTAGG GCTTTTCATC CTTTCTCGTT AGACAGCAAC AGAGAATGGG AAGAAAAACT
208021 AAAGTGATGG GTTTGTGATA CAATTCCAGT AACATAAAGA GCAAGGAGAA GTAGTTTTGT
208081 TGTGTTTATG TTTAATATTC AAAGCTCAAC CTTAAAGTAT TTTTCATTAT CAAACTTCTC
208141 TCTAGAATAA ATGATTAAAA CTTGATTTAA AATATACAAA TTCTCCTTTA TAATACCTCA
208201 AAATGGAGCT ACCCCATTGA GTTTTAAAGT TGTGATTAAA ATATTACGAA AACAAAGGGG
208261 AAGTTGTAAT AGGTAGAACA AGCAGTAGTC TAGGCATTAG GGGATCTGGT GCTGGCTCTG
208321 TGCATCATGT GGTTCAGGC AACTTTTCAA ATTTTCTACG CAAATTTTCT TATCAATAAA
208381 ATAAACAGTT GGGCCAGAGG ATCTCTGAGT CTCTTTCAGC TTTCAGTGTT TATAAGATTG
208441 GAGAAGTTGG TGGGAAAGCT TTAAGTGGAG TGTAAGTAAT TGCAGCTGCA TGTACAGTTA
208501 AAGAGTTGCC TTCAGCCAAG CCACGGGATC TTGCATAAAA AGTGAAATCA AATAGAAAAT
208561 GGTCCAACT CTGGGTTTGA CCACAGATGA CTTCAGCTAG GATCTGAGTG TAGAGCAATG
208621 AGCTGAACTC CTGATATCCA GATGTTAGCA AGACTTGGAG GCCTTCTAAG GCAGAGCAAC
208681 AACCAGTATC TGTCTGGTG CTGACCTGAT CTTACTAGCA ATTGGGCCCTC CATTTGGGTC
208741 CATTGTACAA AACAACAACA ACAACAACA TAAATCTCC AACACCCAA AATTCAAAAT
208801 TTAGTGGAG AGATACTATT CCCAGAATTC TAGAGATATT TGGAAAGCAG AAAACTATAC
208861 TTGCCATGCT GATGAAGTCC AATTTTAAATA CTTTAAATA CATTTAGCTA CTTCTGAATA
208921 TAAATGAGT ATCTACTAAT TATTTACAAA ATCACTTGGT AAATATAGAA AGTCACAAAG
208981 AATGAAGTGA TCATCCTGTT TTGTAACCCA GAAATAGTCA TTACTGGCAC TTGTGTGAAT
209041 CAGTTTCTAT TCCTGTATGT GGATGTGCAC AGCGTATCCT GCTTTGTACA CTAGACTACT
209101 AGCATTTTTC TAATGTAATT CAATATTGTC GAAAACATTT TAAATAGCT TCCATCACAA
209161 TAATCTATCA AATTGACTTG CCAGACTCTC ATTATTAGGT TAATTTATCT CTAACATTAT
209221 GCAGTCATGA GTAATACTAC AAAGGATATT TTTGGACACA ATTTTTCATC TATGCCTTTC
209281 TTTATAATCC TTCATCCTAA GGTACAGAT TATGAATATC TTTAAAGTAC GGACAAGTCT
209341 TTTAAATTTT GTGTGCAAAA ACAGTGCAAA GCCTTGAATG ATAAATAGA GGTGTGATAT
209401 ATGTGTTTTT TTGTTTGTGT GTTTTGAGAC GGATTCCTGC TCTGTCCCCC AAGCTGTAGT
209461 GCAGTGGCAC GATCTTGGCT CACTGCAACC TTTGCCTCTT GGGTCAAGC AATTATCCTG
209521 CCTCAGCCTC CTTAGTAGCA GGGTCTACAG GCATGTGCCA CCACACCCGG CTGTTTTTGT
209581 ATTTTTAGTA GAGATGGGGT TTCACCATGT TGGCCAGGAT GATCTCGAAC ACCTGACCTC
209641 AAGTGATCCA CCCACCTCAG TATCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACTGCAC
209701 CCGGCCGATA CATGTGTTTT TAAAGTCACA GAAATTTTCA ATGTCTTGAA GGATTTTAAAG
209761 CAATTTAAAA AATAAAGTCA TAGAAGCTTC AATTTAGGAA TGAATGGAAA ATTGATGATA
209821 TTCTTAGGAT ATGGATTTTT CCTAAAAGAA ACAATGTAT GCATCCCCAA AGATAATTTG
209881 ATTAGTATAC AAATATTAAA TTAAACATGT CCATATTTAG AGCCATGAAT TCTCTTGGC
209941 TGTCACAATA GCTGGATTTA TTCACAATTG TAGTAATTAG TCCCTGTTCA TTATAATTTT
210001 CTAGGTGATA TGAAGACTTT GTCAGTCCAA GCAAGTGTC ACATTGTGTG TAGCAAACAT
210061 GAGAATAAAC ATTTTAAACT TTTAAATGTA ATACATATTA GTGTTATGTA ATGTCATCCT
210121 TCATGTTTCA AGGCACATGG AACATTGTTC TGGTGGTACA GAGGGGAGAG AAACACCATC
210181 AGAATGAAAG GAAAGACCGC TCTGGAACCT TCCTCCTTAG CTCTTGAGCT TAGTTTAAAT
210241 GTCCTGTCTT ATGGTCTGCT ACAAGCAATA CCACTCTTCA CCTTCGCATG CTTCTCTGTG
210301 GTTTGATAAA GTACATGCAA TTTTTCATTT AATTCTTCCA GCTGCACTAA GAAAGGAGCC
210361 TTATCTTTAT TGAACAGATG AGGAAATGAA TGATTAGAGA ATTTAAATGA CTAGCTCTAG
210421 GTCACACAGC TGAACCTTAC AGCCAGATTT CCTTTTAAACA ATCCTGTAAC CAAAAGCATA

Figure 2 (Page 65 of 74)

210481	CCAGTAGTGC	CCCATAAAAT	GTAAGTTATA	GAGCTGTGTT	GGGTCAAAAC	TTTTACTGAT
210541	GCTAAGAGGA	GGCAACATTA	ACAAGGGGAA	ATTATTTGTG	TATTATGTTT	TGGATTATGT
210601	TCTCTCCATA	GATAAAAGAC	TGTCGTAGTA	AAAGAGATTC	AGGGCACAGG	GAAACTCCAC
210661	CACAAAGCGT	GGTACCATTT	CCCACAGAAG	CTAAATGGAC	GGGAAGCCTG	CCACCAGGAA
210721	AGGTAAAGCC	ACTGCTCTTG	TTTGCAGGCT	ATGTTAATAA	GCTGAAGCTT	ATTCCGACAC
210781	ATTTACACAT	CTCTGCATCA	CACTGACCCT	TCGTAAAGAT	ACTCCCAGTG	TAACATTGGA
210841	GCCAGCTCCA	GCCCCGTGATC	CTGTTGCTTT	TTCTTAGGCC	CCATGAAATC	ATCTGCGAGA
210901	AATTAAGCCA	AATAAGCAAT	AAATCCTGGG	ATCTAGGGAG	TGGAATAAGT	TTTGGGAAAG
210961	TCTTTTTTTT	TTTTTTTTTG	ACTGAGTCTT	GCTCTGTCTC	ACAGGCTGGA	GTGCAGTGGT
211021	GCGATCTCGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAG	GTGATTCTCC	TGCCTCAGCC
211081	TCCCGAGTAG	CTTGACTAC	AGGCACACAC	CACCATGCC	AGCTGAATTT	TTGTATTTTT
211141	AGTAGAGATG	GAGTTTCGCC	GTGTTAGCCA	GGATGGTCTC	GATCTCCTGA	CCTCGTGATC
211201	CACCGGCCTC	GGCCTCCCAA	AGTGCTGGGA	TTACAGGCAT	GGGCCACCAC	GCTCGGCCCG
211261	GGAAAGTCAT	TTTAAACCAA	CCTATGTATG	AATCCCTACT	ATAATATTCT	CACCAAGCGG
211321	CTGGCTCTTT	CTCCTGAGCT	TGGAAACCTC	CAGTAAATG	GAAATAATTA	TTTCCCAGAC
211381	CACCACTCTT	ATCTGTGAGC	TTTTTTGGCC	ATTAAAAATT	ATTTCTTCCA	TTATATTTTT
211441	ATCTGTGTCT	TCACAGGTTT	TCTCTTTCTT	TCACCTTAGT	GCTTTTCTTC	AAATAAGCAG
211501	GAAAAATCCA	ATCTATCATG	CACATGGGAA	CCCTTTCAAT	ATTGGTCTGT	GGTTGTTCCA
211561	TTTTATGGGG	ATGCTTTTAA	AGAAAAAATT	TGTCCTTTCA	ATATATTGAA	TATCTTCCAG
211621	CACCACATCA	CCTGCAAGCT	TTGTAAAAAT	AGTTCTACAT	ATTAATTTTT	TTTTTTTTTTG
211681	AGATTGAGTC	TCATTCTGTC	ACCCAGGCTG	GAGTACAGTG	ACATGATCTT	GGCTCATTCG
211741	AACCTCTGCC	TCCTGGGTTT	AAGTGATTCT	CCTGACTCAG	CCTCCCGAGT	AGCTGGGATT
211801	ACAGGCATGC	ATCACCATGC	CTGGGTAATT	TTTGTATTTT	TAGTAGAGAT	GGGGTTTCAC
211861	CATGTTGACC	AGGCTGGTCT	CAAACCTCTG	ACCTCAAGTG	ATCCACCTGC	CTTAGCCTCC
211921	CAAAATGCTG	GGACTACAGG	CGTGAGCCAC	TGCACCCAC	GTAGTTTTTT	TTTTTTTTTTA
211981	AGTTGAACAT	ATGTGAAGGC	AGGACCTAGT	GACACATAGC	AATAACATTT	CCAAGTAGAC
212041	ATTACACTAG	GGAATTAGTC	AAAGTGCTCA	TTTAAAGTAC	CATCTCTCAA	ATGTATTAAA
212101	AGAGAATCCT	TGGATGTGCA	ATACCTTAAT	TCAAAGGCAG	CTCGTTATGT	ATAAACTCTC
212161	AAGCTTTGTG	ATAAACAAAT	GTGCATAACA	GATGGGACTA	TTGACTTACA	GCCCAGGGAA
212221	TTTTATTGAC	GCTGAGAAGG	TTATGTGACT	GGCTCTGCCA	CTGTCTATCC	CATTCATCTC
212281	ATTTTGGAGC	AATATGACAT	AAATGCCTTA	CATGTGGGTT	TTCTCTATTT	ATCATGTGTT
212341	TCCTATCCCC	TTGAAAGATG	GCCATATTTG	CTTTACTTGG	TTATAAGATC	CCATATTTCG
212401	TGTCTTGAAG	CCAACCAAAT	AATTTGACAA	AGTGGGTTTG	TAGTGTCTGG	TATTTTGGTG
212461	AAAAAAGAC	AATGAGACTT	CATGTGTCTC	CCAAAGTTCT	ATCAGATCGA	GCTGTGAGAG
212521	AAAGGAAAAG	AAAGGGGTCT	CAGTCAGGAT	GCTCACTGCA	TACATCTGTG	TTGTTGTCTA
212581	GGTCCAGATT	TCTGTTTCATT	ACGCTATGGG	CTGGCTCTTA	TCATGCACTT	CTCAAACCTC
212641	ACCATGATAA	CGCAGCGTGT	GAGTCTGAGC	ATTGCGATCA	TCGCCATGGT	GAACACCACT
212701	CAGCAGCAAG	GTCTATCTAA	TGCCTCCACT	GAGGGGCCCTG	TTGCAGATGC	CTTCAATAAC
212761	TCCAGCATAT	CCATCAAGGA	ATTTGATACA	AAGGTAAGTA	TGATGGAAAA	TAGGGCTCTT
212821	TGTTGAGAGA	AAAAACTTTG	AAAGGAAGGC	ATAGATCTTG	ATTCTGTGGA	GTATGGAAGT
212881	ATACATTTCC	AATGACAAAT	TAAACTGAC	TGGAACATAT	TTTCTTTGAG	ACATGCTTA
212941	CTTCAATAAT	AAAAATAAGA	TTTCATTGAG	GTTATTATGA	TTATAAGGTG	GGGGAACGTG
213001	AGAGTTAAAT	GTGAAAAATT	TAAAAATGGA	ACAGTTTATG	TGATGTCTTC	AATGAAAAAC
213061	TAGGTATTAC	CTGGGCACAT	TCTTATAGGT	TACTCAATCC	TATTCAGTTC	TCTGCCTGTT
213121	TTATTGTTTC	TGAGCAATTT	TATATCCCTG	TAAATTCTAT	ATAACCAATA	GAAATGCAAA
213181	CGATTCTTGT	CCATAGCTTT	GCAAATAAAT	TTTGCCAAGA	GAAAAATCAG	TTAAAACTTT
213241	TCTCCACTCA	CCTCCCAGTT	GAATTAGCCA	ATTTTGCTGT	TTGTTTGTGTT	GTTTGTTTTT
213301	TGAGATAGAG	TCTTCCTCTG	TCATTACAGC	TGGAGTGCAG	TGGCATGATC	TCAGCTCACT
213361	GCAGCCTCCG	CCTCCCGGGT	TCAAGAGATT	TTCTGTCTC	AGCCTCCCAA	GTAGCTGGGA
213421	GTAAGGGGGC	ATGCCACCGC	GGCTGGCTAA	TTTTTGTTAT	TTTAGTAGAG	ACAGGGTTTT
213481	ACTAGGCTGG	TCTCGAATC	CTGACCTCAG	GTGATCCACC	CGCCTCGGCC	TCCCAAAGTG
213541	TTGGGATTAC	AGGTGTGAGC	CACTGTGCCA	GGCTCTGCTG	TATATTTAAA	GTCTATTTCA
213601	GCATTGCTTC	CTGCTTGTGT	TATGCGTGAT	TCTTTGAGTT	TTCTTTTGAA	CCAGTTATAA
213661	CATCTTACTT	ACTTCCTCCA	TTAATCAATG	AGTTAAATAA	AATCTTTGTT	GTATGTTTAT

Figure 2 (Page 66 of 74)

213721 TTTACATTTA TATGAAAACC ATGAATTTAC CCAATTAAAA AAATTATCCT TTAAATTATC
213781 TTGTAAGTGA CATTTCCCAT GTCATCCCTA TAATTCATGA TTAATGATTT TATTACATTG
213841 GACCTAGCTT ATTTACAATG AGTACATAAA TTTATTGTCT CCAGTCTTTC CTCCATTATC
213901 CCGTCTACAT ATCCACACTG AGTAGATTCA CTAATCAGGA ATCTTGGACA CCTTCAAGTT
213961 GCCAAACATG CAGTGTTCAC TGGACATGCT GTGTTCCCTC AGAATTTGGG CCTGCTTCTC
214021 AGCACACTCA CATCTGCTAT CAATGACCCA TGGAAAGTTT TTGCCCTGAG CAAGCCAGAG
214081 TCCCTGTTAG TTTCTTCCAA ATGCTACAAG TTCACCTTTG CTATTTTTTC CGATGAGATA
214141 AAATTTTCCT TTTTGACTTT CTACAAATCA TAGTCATTTT TCAAGGGATA GTTCAAGTAT
214201 TGCTTCCTTT CTGGGACCTT CCCAAATTAT TATTTTCTCC TCTCAAAGTC TCTGTTTTAT
214261 TTATGTTTCAT CCTCAAATCT TGATCTCAC ATGAATCATA TACCTTGTAT TATTTATAGT
214321 TTTTTTGGAGT AGGTAAAATA TTTTATATTT TATATTCTTT GGCTCTCTAC TTTATAGCAT
214381 GATGCCAGAT ATTTAGGGGC CTTACTGCAT TTATTTTTTA TTTTATTTTA AAATCTATTT
214441 TATTTTTTAT TTATTTATTT TAAAATCTAT TTATTTTTAG GTAAATATTC AGGTAATATA
214501 ATTTATGTAA TTATTTAGGA ATTTTAGGTA GTTATTTTAA AATAATTCAA ATTATTTATT
214561 GAGTTATATC AGAAGAATGT GATCTTATTC ATTTGTAATA TGTGTTTTAG GAACTCAGTT
214621 CAGCCAGGGC AGACCATAAT TCCCAAACCT GACTTTTCTT TTTAATTAGG CACTGATTTT
214681 GGTAAAGAGT TCAGTAAAGT TTTGTGTGTG TGTTTTAAAA AATTCTTTGA TATAAGAGTC
214741 AAGATGTTAC TCAACTTTTA CTAGAAGCAA AATAGAGGAA GTGCTTTCAC AGATGAAATA
214801 TCTCTCAATG TTTTCTTCCA TTTACTTCTT CCTATTATTC ATCTATATAA TCATTTTCTT
214861 TACCTCTTTT CTTTATTTCT TCTGTTTTTC TCTCCTACTA AGACAAGCAA ATTAGGGGTA
214921 TAATTGGTTA TTTGGGAAGG TAGGAAGAAT ACAGAGAGAA ACAAATATCA ATATTTTATA
214981 CTAGGGTCTC ACTAACCTCA AGCAACTCTG ACTGTAAAGT AGATTTTCAT AATAGGACTT
215041 CTTGACAAAG AGTTTTCTTA TTTTCCCTCC AGGCCTCTGT GTATCAATGG AGCCAGAAA
215101 CTCAGGGTAT CATCTTTAGC TCCATCAACT ATGGGATAAT ACTGACTCTG ATCCCAAGTG
215161 GATATTTAGC AGGGATATTT GGAGCAAAAA AAATGCTTGG TGCTGGTTTG CTGATCTCTT
215221 CCCTTCTCAC CCTCTTTACA CCACTGGCTG CTGACTTCGG AGTGATTTTG GTCATCATGG
215281 TTCGGACATG CCAGGGCATG GCCCAGGTAT CCAGATACTT TCTCATTCTT GGTGGGATCC
215341 AGATTTCTGA ATTCTACAAA ATATCAAAGG TCTTAATGAT TTTTATTTCA GGAATGGCA
215401 TGGACAGGTC AGTTTACTAT TTGGGCAAG TGGGCTCCTC CACTTGAACG AAGCAAGCTC
215461 ACCACCATTG CAGGATCAGG TAAGTGTGCA CAGATGGGTC ATAGCTTTGT CATCTGTTCC
215521 ATCCCACTGT GTCTTATCTT CTATGAATCA AATGGTTTGG GGAAGAGAGA GAAAAAGTAC
215581 TGCTGAAAAA TTCAACAATA TAAGACACTT GCATCAGAAA TAGGAAAGAT GCATCTGTGC
215641 AGTAAAGACA TTGAAGCTTA GAAGTAGAAA AAACCATTGT GAGCTAGGTT TCAGCTCAGA
215701 AAAGCCTTAG TAGTCAGAAA AGCCTTAGTA GTCAGAAAAG CCTTGTCCGA AAAAGTTTAA
215761 ACCTTTAAGA ATTGCACACA TGGAAAAAGA TCAAGTAAGC TATATATACA CCATCTTAGC
215821 AATGATTTTG AAGTGAGAAT TAAGGCTACC ACAGCTCCAG GTGGTAAGGA GAGAAATCAG
215881 GCTGGAAGAG TTTGAAGTTT CTGTATTATT CTAAGCTCTT TACTATTCTA TTATGAGCTC
215941 ATTAATTCTC ACAACAACCC TCTCATATAA GTACCATTTT AAATCTTTAT TTTACAGAGA
216001 AGGGAGTTAA GGAAGGTGGA GATTAAGAAA ATTGCCCAAA TACAAATAGC CAGCAGGTGG
216061 TAGGTCTGAG ATTTAAGCCC ATGCAGATTT TAGCCCCAGA GCAGACATTC TCAATCACTA
216121 TGCTAGACTG CCTTTCCATG GTATGTGATC CTAATCAGGC CTCTACAGCT TTATCATTCG
216181 TGTTCTCCCC AGCCTGTCTG GCTGAGAGTA TATACTCGAA GAGCAGAACT AAAATTTCCAT
216241 CCAGCTTCTC ACTCCTAGGT CCACTACACA GCTGCATCCT GCAGACTTTT ACCTCAAGCA
216301 ACCCTCCTGC GTTCTTGCTT CTTCCATCA TAGTTGTAAC CATCTCCTCT ATTTGCAAAAT
216361 ACTATCTGCT GATCTCTCTC TTCTAGACTG GTTTCTTTCA ACCTTCTTCC CACCAAAACC
216421 AAGTTAGCTT GCTAAAATAA AGATGGCGCA TTTTACTCA CCCGCTTGAG AATTTTCAAT
216481 GTGTTCTTTC ATGCTTACAG AGTAAAGCCT GACCTCTTTA TTGCATGAAT ACAAAGTTTC
216541 TTAGCCATCT GGCCCCAACC TTGTTCCACT CAACTCCCCT GTGCAAGCAT GGCTCCAGTG
216601 GCACTGGACA TTGGCTGCTC TCCACATAGA TCTGCATGCT ACTTCCCTCT GGCTCTGCTC
216661 CCGTTAGTTT ATATGCCTGG AAAGTTCTTT GCCCCTGTTT CTTGTGCCAA AATTTCCATCT
216721 ATCCTATTGC ATAGCTTATG TAAAACTTC CTAAACCTTT TTTTTTTTTT TTTTTTTTTT
216781 TTTTTTTTTT TTTTTTGAGA CGGTGTCTCA CTCTTCCGCC CAGGCCGGAC TGCAGTAGCG
216841 CTATCTCGGC TCACTGCAAG CTCCGCCTCC CGGGTTCACG CCATTTTCTT GCCTCAGCCT
216901 CCCGAGTAGC TGGGACTACA GGCGCCTGCC ACCATGACCG GCTAATTTTT TGTATTTTTA

Figure 2 (Page 67 of 74)

216961 GTAGAGACGG GGTTCACAGC CAGGATGGTC TCAATCTCCT GACCTCGTGA TCCGCCCCGCC
217021 TCGGCCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACC GTGCCCCGCC AAAACTTCCT
217081 AAATCTTATA ATTATTATCA ATTTATCCTC AGATATACTT CCACGTACAT TGTAAGTTTA
217141 TTATATTTAT ATTTTACATC TTTTTTTTCA AATTGCAGTT TGGGACCCAT TAGTGAGTCA
217201 TAAAATCCAT TGAGCGGGTT AAAATCATTA TTTTAAAAAA TGAGTAGAAT AGAATAGAAA
217261 TTGTTGGAGT GCATTGGACA TGGTAAAGTT AAATATCGAT TCATGAAACC ATCGTTTGAG
217321 GCATATGTGT GTGGTTGTAT GTACAAGTGT TTATGCATAT TGGTGTGTGT GTTATGTTAC
217381 CCTGTAAAAT GCATTTCTTA CTATAGGTCT CTGTGAAATA TGTGTCTTGT TGTTTTTTAA
217441 TGTAGACTTC CAAAGCCTAC ATGGCATTTT ACTAGTGACA ATCAATTTTA TTCACATTTT
217501 TCTCTCCAAT TGGACCAGAA GCTCTTTGAG GGCAGGGGCT GTATCTTACC GATTTTTGTA
217561 AGTCTTTTCAT TTCCTGCCCC TAGCCTCATA TTAGATCATG CAAGAATGCA ACTGTAATCA
217621 CAAGAAAATG CTAATGGGCT GTGATAGCAG AGAGTTACTG TGACAACTA AGGGATTAG
217681 ATTTGGTCAC ATTGGTGTGT AGGAGCCATT GAAGAATCAG AGAGTGTGT ACTATTATT
217741 GTTAATTTTA ATTATATCAT ATTACTTTAC TGGGGAAAAAT CTGTGAGCTA TTTTAGAAAT
217801 AAATACTCTC ATTGCCAAT AATTCTAAGT CTGCCACCTC ACTGTTGGGA CATTGTTTAG
217861 GGAGGCCACG AAGTCTCAGC CTTTGATATT TTCATAAGTG TTTTCTCCC TTTTCTCTT
217921 AGGGTCAGCA TTTGGATCCT TCATCATCCT CTGTGTGGGG GGACTAATCT CACAGGCCTT
217981 GAGCTGGCCT TTTATCTTCT ACATCTTTGG TGAGTCACTT TCTCTTAAAT CCTAATGCCT
218041 CCATTTCTTG AGCATCCATT TTGGCACCTA CACCACCCAC ATTCTTCCTA TATGAAAGAA
218101 AATGTCTTTT ATCAAATGGA AGATGATAAA AAATGTCAAC GGTGTTGATC ATTTTAAATC
218161 TAGTCACACA ACCTGATTAA CACCTTCTTG GTGGTCTTGG GAAGCCACAC GCAAAAGGTA
218221 GAGGAGTTGA CTATTCACAT GGCACCCACC GACTTGTGAT GCAGTCTTGT CCTTCCATAT
218281 CAAGCACCTT CTGCAGAATC TCTACCACCA CATCTGAAGT GCCTGCTATA TGCAGTTAAG
218341 ATGTCAAAGA TAGTGAAGTA CATTTTCAAT GTGTCTTCAT ATTTCAATTAT AATTATTATT
218401 TCTGTCCAAG ATGCCTTTCA CTTGTCTCTT ACCAAGTTAA TCTTGCAAAG TTCAATTCAA
218461 ATGTTCCCTT CCCCATGGGC CTTCCAGGG CTTACCTGT CAGATCTTGG CATTCTCTCC
218521 TTTATGATAT TTCTCTCTA GGTATGTTG GTGTGTAATT ATTTATTTCT CCTTTCTTT
218581 CCACTAGACT GTGAAATGCT TGAGGCAAGG AATCCATTCT ATGTTTTTCA CACTGGGTG
218641 TCATCATGGT GCCTGATTTT TAGCTTTTAA ATAAAAGAAT CAGTGAATCC AGTAATTAGA
218701 GGGGATTTAA AGAAAAC TAGCTTCAAA CTTTTAACAT AGAATGTTCT TCAAATAAGG
218761 AATTCCAATA ATAAGACAAT TTTCTACACT TGATTTTGT TTTATAGCCA AATGGTGTCA
218821 TTAAATATAG TCTGGCCTG AATGGCTTTC TCATTAATGA TGCTAATTAT TTTGGTTTGT
218881 ACATGTTAAC CAGGTATTGT ACAAAAATAT TTCTTTTGGG AATCCATAAT GGATGTATGG
218941 CTTGAATACA AATAATACTG TCTCTTGTA GTGCATTGGA AATTTTTCCC TGCCACATGA
219001 TTTTCATGGAA GGTGTTTTCG TGTATGTATG ACTGCAAACC TGACTATTCA GATCTTCCGC
219061 AACAAGACAA CTTATGTGTG CATTAAAGAAG TTGCTGCCTA AAATACATA CACTGTAATC
219121 ATTTGGAGACT TTAAAGTAAT TAATCAGCTA TGCAATGCCA CGCTCCTGTT ATCTCCAGAG
219181 GGCTCTGACA TTGACAAATG GTGGCTTTCT ATTTGAGACG TAATATCTAA AAAGCTTTAA
219241 CAGGTTTGTA GAAGGATTGA AAGAAAAGAT GGGAACATTT AGGTCCCTAT GGTAGAATAA
219301 GCATTAATTG ATTAGTGTGT AGAAGGGAGA GGCATGCCAC TTCAGAGGAA ACTTCCTTCC
219361 CCCAGTAAAC AAATCTACCT AAAAATAAT TTTATCCCTT CTTCACAGGT AGCACTGGCT
219421 GTGTCTGCTG TCTCCTATGG TTCACAGTGA TTTATGATGA CCCCATGCAT CACCCGTGCA
219481 TAAGTGTTAG GGAAAAGGAG CACATCCTGT CCTCACTGGC TCAACAGGTA CAGTGCACAC
219541 CTTGTACCTG TGGCCCATGC AGAGGTCTCT AGGGCAGGGT GTGGATCTCC TCTGAGAGGC
219601 ACCATCTTGG CTGCTCTAAT ACTCATGCTG ATTAGATCTT TCTTTTCAGC CCAGTTCTCC
219661 TGGACGAGCT GTCCCCATAA AGGCGATGGT CACATGCCTA CACTTTGGG CCATTTTCTT
219721 GGGTTTTTTC AGCCATTTCT GGTATGTCAC CATCATCCTA ACATACCTAC CAACGTATAT
219781 CAGTACTCTG CTCCATGTTA ACATCAGAGA TGTGAGTTTA CTTCTTATAC TTCTACGAAA
219841 ATGATAATGG TAATAAGGAG AAACAGTTCT GTGTTACCTA TTACATTCTG GCTTTACATA
219901 TAACCATTAA TTTAACCTTC ACAATGACCT TGAGAGAGGC ATTGTTATAA TTCCCTTTTC
219961 ACAGATGTGG AAACAGGACA CTTAGAGGTG AGATAACTTG CCCCAGGTTG CACAATACTA
220021 AGTGATAGAG CTGCTGCAGC ATCCATATTC TTAACCACTA TGCTATACTA CCACACCAGC
220081 TGATTCCAAA GCTTCTTTTA GAAATAATAT TGCTGGGCCA GGCATGGTGG CTCATGCCTG
220141 TAATTCACAG ACTTTGGGAG GCCGAGGCAG GCAGATCATG AGGTGAGGAA TGCAAGACCA

Figure 2 (Page 68 of 74)

220201 GCCTGACCAA TATGGTTTAC TAAATATCAT CTACTAAAAA TACAAAAATT AGCCAGGTGT
220261 GGTGGCAGGC ACCTGTAATC CCAGCTATTC AGGAGGCTGA GACAGGAGAA TCGCTTGAAC
220321 CCAGGAGGTG GAGGTTGCAT TGAGCCAAGA TCATGCCACT GCACTCCAGC CTGGGCGACA
220381 GAGTAAGACT CCGTTTCAAA AACAAAAAAC CCAAGAAATT AATATTGCTT TTATCTGGAG
220441 CCCAGAGTGA TGCAGCTTCT GGCCCTCTTA TCTGAGACAG TGTTCCTTTA GTGTGAAAAA
220501 GGATGCTAAT TTTCCCCCAA ACAACCCACA GTATCATGGG GGTAAGTTAA TGGCTGGTCT
220561 GTGTAAGTGA CAAATTTTGG TGCTAACGTA TCTCTATAAC TACTCTGTAT AAACCTCCTT
220621 CCTTCAGAGT GGAGTTCTGT CCTCCCTGCC TTTTATTGCT GCTGCAAGCT GTACAATTTT
220681 AGGAGGTCAG CTGGCAGATT TCCTTTTGTC CAGGAATCTT CTCAGATTGA TCACTGTGCG
220741 AAAGCTCTTT TCATCTCTTG GTAAGGATAA GCGTGTGGGC CCATTTAACC AATCCCTTTT
220801 CTGCACATGG TCTCAGAGGG TTCCCTGACA GCATGTCCCTC ATTGCCCAGG GCTCCTCCTT
220861 CCATCAATAT GTGCTGTGGC CCGCCCTTTT GTGGCCTCCA GTTACGTGAT AACCAATATT
220921 TTGCTGATAC TTATTCTCTG GACCAGTAAC CTATGTGACT CAGGGTTTAT CATCAACACC
220981 TTAGATATCG CCCCCAGGTA AGAGCTCTAC CTGTTTTTTC CCCTCCTCCA GACCCCTCCA
221041 GAGGTGTTAG ACCTCAGTGG TCGCCGTGAA ACTCTTTAAT GTTACTGACA TTGCACTAAT
221101 GGCAGAATGA CAAATAACTA CAAATATCTG TCTGTGGCCA TTTTGTAGAAC AACAAATGTG
221161 GCATTTTGTAG AACACAATT TCCAATCTTG GCCAGTAATC ATTTTGTACAA AAACCTTCCC
221221 AAGCTTCCCT AACAGAGATT GAAGTGTGTA TGCTGGGAAA AGGCCACAC ACAGGTGATT
221281 TGGAAAAGTT TCCATGGTGT TGTTCATATT AGCTACCACA TATATATATA TATATATATA
221341 TATATATATA TATATATATA TATATATATA TACAGTCACA ATAAGCCAGC TCCTGTGCCA
221401 AGACTTGCCA TATATCAACA CATCTAATCC TCACAGTTAT ATTAGGTAGG CCCTATTGTT
221461 ATCCCCATTT TATAAGGGAG AAGGCTGAGG CACAAGGAGG TTAAATGGTG TGACTATGGT
221521 CACATAAAGG CAGAGCCAGG ATTTGGACTG GGGGAGTCTG GCTTTGGAGT CTGTGTCCTG
221581 CCCGTTGCAC AAAGTGGCTT CTACACTGAG CAGCCAGGGT AAAGAAACGT GGTTCCCAGA
221641 GAGACTGCAT TGCTCCCTGG TTATTGACTT GGTAGATTGG TAATTTTCAGG TTTGGCAAAT
221701 AGACATTGCC CTGAATGTCT TTAGGTGAAT GAAAACTGC ATTAAGCAAA ATGACTTTGC
221761 CATTAGAGCT GAATTGCATT AAAGTTGAGT TGCTGCAGAA GCTGTAGGTG GCTTTCTATA
221821 TAAAAATCAT TATAAAATCA TCTTCCCATG GATATGCAAG TTTCCCTCATG GGAATCTCAA
221881 GGGGATTTGG GCTCATCGCA GGAATCATCT CTTCCACTGC CACTGGATTG CTCATCAGTC
221941 AGGTTGGGTC AGTTTATTGA ACATCTTCAA GTGGCAGGTA TTGTTTTAGG TGTGGAGAT
222001 ACACACGGTG CTCTAAAGAT CTGGATGGCA ACACAATTAC TCTATTTACA TGAGCCTCTA
222061 AATCAGACTC TGGTAGGTCA GATTTCCCAG AGGAAGAAAA ATATAAGCTT ATTTTCTCAA
222121 GATGAATAGA TGTTAGATTG ATTAATATGA GCTGTTCCGG TGCAGAAGAC AGCACGTATG
222181 ACTTCCTAGA GGTACATGAG CATGAAACAG TTCTTAGTTA TGACCAGAAT GAAAGACACA
222241 TGTCAGGAA TAGCAAGAGA CGAAGACAGA GGGGCAAAAG AAGATCATGA AGAATATGTT
222301 CAGACTAATC CAATTTTTAA AAAATCACAA AAGGGAAACA AAGTGTCTTA GGCCAGTTTA
222361 AAGATAATTT AATGTCTGGA AACAGATCGG CTGTGAGACA TTGCAAGGAG GCTTGCTCGG
222421 TGTTTGAAAA TGCAGGCTCA TGAGGAAGAT GAAAAGACAG ACCCAGGCAG GGATGGAAGG
222481 ACTGACTAGA ACCAACTTAC AAAGAGAAGT TTTGTTTTTA CTACATTTCT ATGTGATCAA
222541 GTTCCCAGGT TAATATTTGA CTAAACTGCT AGGAATCCAC TGTGACTATA ATGCTGGAAA
222601 TGACTTAGTA GGGCTTTCTG AGGAGGGTCA CACAGAAGAC CAAAGAGAAC TCATGTTGAA
222661 TTGAGATGGG TTATAGTGAT AGTTGTCAAC AGCCAATACA GAAACAAAAA AAAACAAAAC
222721 AAACAGCAAC AACACAACA AAAAAAATAA AAAACAGAGA AGACACAAAC ACAATGCCAC
222781 AATGCCATTT TAGGCATAAT TTTAAATGAG TAATATTATA TGTTGAAATC CAAATTTTCA
222841 GAAAAACATT AGTGTATTTT ATTTTGTGTT AAAGAAATAA CCATCTCAAC TCAGAACCCC
222901 ATGTGCATTT TGGCCATTTT GTTTCCAATA GTTTCATAAA CTTTCTTAAG TAACTACTGC
222961 ACATTGTTCC TTATATTCTT TGTGATCAAC ATTGCAATAC ACAACTGGGA GGGCTACTAG
223021 AACTGGTGTA GAAGGAACTT GTGAGATTGA TCATTTTCTC TGTTTTTTTAC ATCTAGGATT
223081 TTGAGTCTGG TTGGAGGAAT GTCTTTTCTC TGTCTGCTGC AGTCAACATG TTTGGCCTGG
223141 TCTTTTACCT CACGTTTGGA CAAGCAGAAC TTCAAGACTG GGCCAAAGAG AGGACCCTTA
223201 CCCGCCCTG AGGACATAAA GTTACAAACT TAAATGTGGT ACTGAGCATG AACTTTTTTAA
223261 ACATTTTTTA CTTCTCTCCA TATTCCTGAC CATAGACTCA GCAGTTCTTA ACTCTGGCTG
223321 TGTGTTAGTC TTCCCTGGGG AGCCTTTTATA AGACACTGAT ACTTGGGACC CACTCCAGAG
223381 ATTCTGAATG AATTGGTCTG GGGTGAACC CAGATACTAC TAATTTTTTAG ATACTCCTTA

Figure 2 (Page 69 of 74)

223441	GAGGTTTCTA	GCATGCGCCC	GGGGTTGACA	ACAGCTGGAC	AAACTTGAAA	AGTCAATTCA
223501	TGTGGCCTTT	GAATTTTCCT	CATTGGAAAAG	TACTAAATAA	ATAAAAATTC	ATGTGAAAAT
223561	GATCACTGAT	AAATATCTTC	ATGGTGGGGC	AGGTATATTGG	ATGCAGAGAA	GATCTGCTCG
223621	GAATTGTAGC	CATATGTTAC	AGATCTCAGC	ACCGATCAGA	ACTGTAAAGC	TATAATCCCC
223681	AGAATTAAAG	T'TTTTATTAT	T'TTTTATACA	TTGTAAAAACA	TAGACGTTTA	TTTATGTGAT
223741	TAAATTCTAT	TAAAA'TTTAC	ATGCTAAAAAT	AAAAATAGACC	ATTTTCAAAT	TATTTTAGATC
223801	CAGATATTTT	CATCAGATTA	AACAGATATT	TATTTATCCT	AGCCCAATTG	CAAGAGATTA
223861	ATGATGAGAA	AATGACCAAT	ACAAGATTAA	ATAAATGAGG	TTAACTTAGA	AATCAAGGAC
223921	AGAGAAGATA	GAAC'TGGAAA	GCTTGTATTG	TGAGAAGAAT	GAATGTGAAG	GAAGGCAATG
223981	TAGACACTTC	CAGAAGGGAT	AGCAATATAG	TTTAGACCAT	ATAATGAAAA	TTGGAGAGAG
224041	ATGACAGAGA	CAC'TTTCAAG	TGAAATGACA	ATTTATATGG	GGGAGAAAAA	TATTGAAGAC
224101	ATAACAAGAT	GAGAAAAGGC	ATAGAAATGT	ATCACATACA	AGGCATAGAA	GTGTATCACA
224161	TACAAGAGAA	GT'TCC'TTTTG	AGCGTAGAAA	AAGATAATTT	AACCTTCTTC	ATATTTTTTCT
224221	TACTTTCCCA	AGATACTCAG	ATAGGCAGCG	TCAACTCTAA	CAGGAATTAA	TTTGGCTCCT
224281	AACACTTAAG	ACATATCCTT	TAGTTTGTCT	CCTCACACAG	AACTGATTCT	GGTTTTTGCCA
224341	CAACATGTCT	AGAGAAGAAG	T'TCCCACCAT	ATTTTAAATC	CTATTAAAAA	ACTGCTTGGA
224401	CAAGAACCTT	GGGCTAATTC	AGCAGATGAA	GAGAATCTCC	TAATGCAAAT	CAATGGGTAT
224461	TTTTTGAGCAA	G'TTTTTTCAGA	AAAACAGAGT	GTCAGGCCCT	GAGGGTGGTA	CTAAGATGAG
224521	AACATTGATT	TTGCCTTTCAT	GATATTGACA	ACACAAAGAG	GAAAGGGGGT	TTGCAGAAAA
224581	CTAAAAGAAG	AAGTAGAAGA	AAAAAGAAAAG	ACATAGTATA	ATAGGTAGTC	AAATTATGTA
224641	CAGAAAAAAG	AGGAAAAAAA	ACCAAAAAAG	GGTGGGGGAC	AGACAACCCA	ACTAAAAAAT
224701	GGGCCAATGA	C'TTGAACAGG	GACTTCATAA	AAGAGAAAAAT	GTAAGTGGCT	CCTTAACATA
224761	TAAAAAGATG	T'TCAACTTCA	T'TAGTCATTA	CAGAAATGAA	AATCAAAAAT	ACAATGAAAT
224821	ACCACTATAA	AAT'TAACTAA	TGGATAAAAT	GAAAGGAGAT	GGAAAAACAA	ATGTTGCCAG
224881	ACATGTGGAG	CAACTGGAAC	T'TTCATACGT	TACGAATGTG	AACTTTGGAA	AGCTGCTCGG
224941	CAATATCTCC	TAAAGCTAAA	TGTACAATTC	CAGTGACTCA	GACATTTTAC	TTAGAAATGC
225001	ACATATACAT	CCATAAAACA	TGTACAACAA	TGTTTCATAGG	AGCACTATCT	GTAATAGCCT
225061	GAACAGGAAG	T'TGTC'TGTTA	AAAAAAGAAAT	GAGTAAATAA	ACCACGGTCT	ATTTGTATAG
225121	CAATGAGAAT	TAACAGACCC	CAATATATAA	TAGATGAATG	GGTCTCATAA	GCACAATATT
225181	GATTAAAGGA	AGACAAAACG	CACATTCTTT	TAAAGGTTTA	TAAAAACTTT	TTTAAAAACA
225241	GCTACAACCA	ATCCGTCCTG	T'TAAAAATCA	GTGAGCGATT	TCCCTTGTGC	AGGGATGGGG
225301	GTTGTGGCTG	GATGGATGGT	ACTTAAGAAG	TGCTCCTGGG	GTACTAGAAA	TATTTTATTT
225361	CTTGACTTGG	ATGTGTGTTT	ACTTTGTGAA	TATTGTACAT	TTATGATTTG	TGCACGTTTA
225421	TGAATGTAGA	AAATAAAACA	GAAAGCAAAT	TCAAAGTATC	ATCCTTTTGA	GAGCTTCTGC
225481	TCTGACTTCG	TTTTTGACCA	TGGAGCAGTT	GGGAAGGGGT	CTTGGTCCCT	CGGTCCCTTG
225541	CTTTTTTTTTT	TTTTTTTTTTTT	TTTTTAGACAG	AGTCTCACTC	TGTCGCCCCG	GCTGGAGTGC
225601	AGTGGCTCGA	TCTTAGCTCA	CTGAAAGCTT	TGCCCTCCCG	GTTCATGCCA	TTCTCCTGCC
225661	TCAGCCTCCC	CAGTAGCTGG	GACTACAGGC	ACCTGCCACC	ATGCCCGGCT	AATTTTTTTGT
225721	ATTTTTTTAGT	AGAGACGGGG	TTTCACCATG	TTAGCCAGGA	TGGTCTCGAT	CTCCTGACCT
225781	CGTGATCCGC	CCACCTGAGC	CTCCCAAAGT	GCTGGGATTA	CAGGTGTGAG	CCACCGCGCC
225841	CGGCCCTTGG	TCCTCTGCTT	TCATGTTCTT	CTTGGTCCCT	TTCTCCTCCT	TCTTTTGTGT
225901	GAAC'TTCCAG	TATCAGAGCA	GGAAGGAAGG	CAATGGGTCA	ATCGATGCTG	TCAGCTTTTG
225961	GATCAAAC'TG	CAAGTTC'TCA	AACAGCAAAA	T'AATGAGCT	CAGGCTTTGA	AGAAACCATG
226021	ACCCTGAAAG	CATCAGTTGC	TTCCAATTGC	ATCAGTTGCC	ACGGGTGATA	AGAACAAATGA
226081	TGACTCAGAA	TGCC'TAGGTT	TTCCCAGCAG	CTTCTCTGAG	GTTT'TCCCAG	CAGCTTCTCT
226141	GATTGATTCC	TGACAGATGA	CTTCGGTGTG	TCAGACTTTC	AGGGTATCTT	TCCTTATGTG
226201	ATGGT'TTGAG	GAAGAGTTAC	CATTCACATT	CCTAATGGCT	TCAGAATAGA	TGCAATTGTG
226261	AACTGATAGG	AAACATTTCT	AATTCATCTC	CCCTCCCCAT	CCCTAAAGGA	TTGTTTCTAA
226321	CAATAGTCAT	GAAAATTAAT	TCACTTTTCT	CAAATAGTTT	ATTGTATCTT	ACCTAATGAT
226381	GAGATGACTT	ACTTTTTTCTC	CTTGACTGTT	AAATATTATG	AATTATATTA	ATGTATTTCT
226441	TAATGTTGAG	CTTTCCCTTG	AATATTCTTT	TGATGTACGA	CAGAATTTGA	TTCACTAATA
226501	GTTTATTTAG	GACTTTGGCT	GATGTACTGA	TATATGAGAT	TGGCTCTGTA	TGCATACATG
226561	TGTTTTGTGT	ATCTTTTTTTG	TGCTCTGGATA	TGGAGCTTAT	GCTGATTTC	AAAACAAGAA
226621	AGGAGAACTT	TCCTTTTTTCC	CCATTACTCT	GAAAAAGATT	GACTAGAATG	GAATTTTTTAT

Figure 2 (Page 70 of 74)

226681	AATTGCTGTT	GTTATTTGAA	AGCTTGAAAG	CATTGGTTTG	TAAAAATCAT	GCAGGCTGAA
226741	AGCCATTTTG	AGGAGACTTT	GATAACTTTT	TCAATTTCCCT	TCAGTTACTG	GTCTTTTAAG
226801	GGGTTTTATA	TTTTTCTTTG	ATCAATTTTG	ACCATTTATG	TTATCTTGGA	GGATCATCTA
226861	TTTTACACAC	TATTTAAAGT	ATATTTGCAA	AAATTCAACT	GTTTTATCAG	GCTATCTTTT
226921	TAATAATATA	TTCATTTTAT	CTATATCTGA	GGTTTTAGCT	TCCTTGTA	TCTGACCCAA
226981	TTGCATGTGT	GCTTCTTTT	TCCTTCATTA	GACTACTTAG	TCATTTACTA	ATTTTAAGAA
227041	TAGCTTGTCT	TTTATTTATT	TACTTATTTA	TTTTTGAGAC	GGAGTCTCAC	TCTGTCAACC
227101	AGGCTGGAGT	GCAGTGGCGC	GATCTCGGCT	CACTGCAACC	TCCGCCTCCC	GGGTTCAAGT
227161	GATTCTCCTG	CCTCAGACTC	CCGAGTAGCT	GGGATTACAG	TCATGCACCA	CCATGTCTGG
227221	CTAATTTCTG	TATTTTTAAT	AGAGATGGGG	TTTTGCCATG	TTGGCCAAGC	TGGTCTCAAA
227281	CTCCTGACCT	TAGATGATCT	ACCCACCTTG	GCCTCCCAAA	GTGCTGGGAT	TACAGGCATG
227341	AGCCACTGCG	CCCAGCCCTG	CTTGTCTTTT	TATTTTATAT	TTGATTAGCT	TTGATCTTTA
227401	TCAAGCTTAT	GTCCTATTTT	CCTTTGCTTT	ACTTCATATA	AATTTTGTTT	TGGATAGTTT
227461	ATTTATTTTT	CATTTAATTA	TGAAACAGGT	TAAAGCTTAG	AGGAAAATTG	CTCCTCTAAG
227521	TCCACTTTTG	TGGGCAGATT	ACATTTTGCT	GTGTTGTGCT	CCCAAATTCA	TTGTTCTTTT
227581	AATGCTTTTAT	TTCTCAAGTT	AATAACCTAT	ATAGTAAAAA	AGTGGCTGTT	GACTCTCAGC
227641	TTTTTTTTTTT	TTTTTTTTTTT	TTTTTTTGTA	GATACAGGGA	TCTTGCTGTG	TTGCTCAGGC
227701	TGGTCTGAAA	CTCCTGGCTT	CAAGGGATCC	TCCTGCCTTG	GTCTCACAAA	ATGCTGGGAT
227761	GACAGACATG	AGACACCATG	CCCAGCCATG	TCTCTCTCCT	TATATATAAT	AAGAAAACAG
227821	ACACACTGAG	GCATCCTATC	ATCTCACTCT	TGGTTTCACT	ACTGTTCTCT	GGAAGTTTTG
227881	CTCTGACCTT	TTGCAGTTAA	TGTATTAATT	TTGCATTGAG	TAGTTTCCAT	AGAAGAATTA
227941	TAGCATTTGC	ATTCTGTTGG	GTATTATACT	TTTCACTGTT	ATTTGAACAT	AATTTGAGGG
228001	CTGAAACCAA	GATGAGGCAA	GTGAGGTGCC	CAGGAAGCAA	TATTTAAGGA	GGCATCCTTT
228061	CTTAGGCTCA	TGCAAGAACA	GAATTGGCAC	ATGAGAGTGA	GTGCCTCCTT	AATTTTGAGT
228121	GCTGGACACT	TCTTGCTCAC	TTAGCATACC	CCTGGACAAT	GAAGTGTTTT	TTGTTTGTGT
228181	TTTTCATGTC	CATCCTTTAT	CCTTCTTCAT	CTCAAAACAT	TTCAATGGAG	TATTTTTTTG
228241	GAGCAGTACT	TGGATGAGCC	TCTGATCCCC	ACAGTAGCTG	AGAATTTATT	TCATAGTACT
228301	CTTTATGATC	ACTGTGGAGC	CTTAAAGCAT	TGTAATATTA	ACTTAGCTGG	GAACAGAAAT
228361	TTTGTTCAC	AATTTGTCTT	ATTCAGAACA	GTATTGACTT	CCTGCTAGTC	CCTTCTGATG
228421	TCCAATATGA	GGAAGTCTAG	TTAGCCAGCT	ACTTTTTGTA	GGAGAGCTAT	GTTTAGGCTA
228481	GGTGCTATAG	GATTCTCTTT	ATCCTGGAAT	TCCTTCACCA	AGATGTGCCA	AGGTGTTAAT
228541	CATTTTCTCT	TGCTTTTTGG	CTGGTGGTCT	TAGAGTTTCC	TTGATTTTGG	TTTTATTTAG
228601	TGATTGTCTT	CAATTTGTTT	TCTTTACTAA	GAATCTCTCT	TCTATTTATC	TGTATGGTAA
228661	AACCTTGTTG	CCCATCTTTC	TGGTTTCTGC	TGACTTTCAT	TTTTGGACCT	TTTACTTTGC
228721	TTTCTCCATG	GACTTTTTGG	TAGTGGAGGC	AGGCAAACAC	TTTCCAAAGT	CTTTCTCAAT
228781	TTCCATCAAT	TTCAACTTAT	TTCTTAAAT	TGCCTCAGAA	TGTGCCTATG	TCCACAATAT
228841	CCCTCCTTCC	ACTTTAGAAA	GGAAAGGCAT	CCACACTTTA	TTTAGGTGCA	ATGCCTGAAG
228901	TGTAAACACT	TTCTGGTTGT	CAACAAAGGA	GTACTTCCAA	ATATTGGTTT	GGGGATAACC
228961	TGCTAATGAT	TAACACATTC	ACCTTGGCTC	TTGGTTTGCC	TGCTCCCTCT	TCTTTTATCT
229021	GCTGTGTGTA	TTTTTTTTTAA	TCAGTGAGAA	TATGCACAGT	ATTGTATGTT	TTATTATAAG
229081	AGAGGACTGG	CCAGAGTGGG	AATGTTCTGA	ATTCAGAATA	ACTGAAGCAG	TACAGGATAG
229141	GAATCATTC	TTTCAAATGA	AGCTGGCATA	TTTTCCCAGA	GCACCAAATT	TCAATATATA
229201	TTTAAAAAAC	TTGATATGAA	TGATACAATA	AAGTGGTTAG	AACTTTTATT	AAAATAAACT
229261	TATGTCATGA	AATACTTATT	CTAATTATAG	TCACTCTTCA	TCTTATTTCA	TCTTATAACA
229321	TGTTTAATGT	TTTCTTTTAT	TTACAAAACA	ATTTATTTTT	TGATGAAAAG	TTTTAGAAAT
229381	CAAGTTAAAA	ATATTCAAAG	GAATGCCTAA	AGTTTTCAAA	ATTCTTTTAC	ATGTTGTACA
229441	ATCAAAAGAG	TCTGAAGACC	ATTTAGCTAT	CCAAATTGTT	TATTTTTAAG	CAGTATCCCT
229501	TCTAATATTT	ACTATTTATA	ATCCTTAAAA	ATTTGCCTTA	GCACAGGAGA	ATTGCTTGAA
229561	CCCAGGAGAC	GGAGGTTGCA	GTGAGCCAAC	ACAGTGCCAC	TGCCCTCCAG	CCTCGGCGAC
229621	AGAGTGAGAC	TCTGTCTCAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAGGCC	AAAAACAAAT
229681	AAACAAACAA	AAAAATCCGC	CTTAACATTA	TTTGTTCATT	AAAAACTTTC	TTTAATACTA
229741	CTAGTTTCCC	TTTCCTCTCA	GCCCATTGTC	ATATTTTGAT	TTTTATCACT	TGCTTTGTAG
229801	GACATATGAG	GTTTTTGT	TTTTTTTTTT	TTGGAGATGC	AGTCTCCCTC	TGTTGCCCGT
229861	GCTGGAGTGC	AATGGCGCAA	TCTTGGCTCA	CTGCAACCTC	TGCCTCCTGG	GTTCAAGCAA

Figure 2 (Page 71 of 74)

229921	TTCTCCTGCC	TCAGCCTTCC	AAGTAGCTGG	GATTACAGGC	ACCCACTACC	ACGCCTGGCT
229981	AATTTTTTGT	TTTCTGGTAG	AGACGGGGTT	TCACCATGTT	GGCCAGGCTG	GTCTCGAACT
230041	CCTGACCTCA	AGTGATCCAC	AATCCTTGGC	CTCCCAAAGT	GCTATGATTA	CAAGCATGAG
230101	CCACCTGCCC	AGCCAGAATA	TATGTTTATT	TTGAGTCCTT	TAACAAAGTC	ATAAGAAATTT
230161	TAGGAATTCA	GTTACTTTCT	TGAGAAAATC	TCTGAAAAGA	TGCCAATAAT	TTGTAGCCAA
230221	TTATATTGAT	TTCTCTTTTT	CATATTGAGA	ATTGTTTTTT	AAAAAGTTTG	TATGTGTGAA
230281	GATTTTTTGA	CTGTAGTTAA	AGAAACCACC	TGTGTGTTGG	TTAAGCCATA	AGTACATGTA
230341	TTCAAATAAA	TTGAGGTGGG	GTTACTCTGA	GAATCAAAGG	AAAACCTGAA	GAAACAGGCA
230401	GCCTCAAAAG	GTCTTAGCTG	TAGCAACTTG	CTCCATTGTT	GAAATAAATA	GGCTTGAACT
230461	TGTATTTTCC	CTCTACTCAA	CATTTAAGGT	CTCAGAAGAT	AATATAATTG	GTGAAATTTA
230521	AGTAAAGTGC	TCACTCTTTT	GCTTTAACAA	ACCCTAGAGA	GCTGGTAGGC	AGAGCCTCAA
230581	CAGACCGTTT	TAGCTTCCAA	AGGGAGTTCA	GGACACCATG	ATTACGACC	ACAATACATC
230641	ACACATAATT	GAGAAAAGAT	AGTTCCACCA	AATAAAGTTG	AAATGCTGAC	AAGAAGGGGT
230701	AAGAAATCTT	GGAAATAGGT	TTATATAAAA	TTTTATTTTT	CCTTTTTTAT	TGTTATGGAA
230761	TAGGACCAGT	TCTACTTAAG	CCACCCATTT	GCCAAAATAA	AGTGAGAATC	GTTTCTTTTG
230821	GGGACTCCTC	TTTGTAGCTC	CAAGTGCCAC	TAACAATTCT	TAGGACCTGA	GCTATAAGCC
230881	AGGTGATTTT	AGTTAATATG	ATCAATTATT	TCATTTAAAT	GGCTCTAATG	TGCAGAGGGA
230941	ACGGAGCCCA	TCAGCATTCC	CTGCAGGGAA	CTGCAGTGGC	TTTTATCAAC	TTGAACAGCT
231001	AGCTTTCAAC	TGTTTTGAAA	TCACTTTCAG	GGTGGTCATG	TAGTTGCTTT	TTTGAAATCA
231061	GAAGATGATT	CTGCCTCTTT	TAATATGTGA	CTCCTCAGAT	TCAGAAAGTG	CTCGTAGTTC
231121	TTAAGAGTGA	ATTACCCCTCA	GTGGTCCAGC	GCTTATGAAC	CCACATCTAA	CCCTATCCCC
231181	TGGGGGAACT	ATCAGAGAAA	TTGGTGCCAT	GGACATAAGA	GGAAGGCACA	GTGAAGCAGA
231241	GAGCCCCGCA	TGATGAAAAT	CAGTGGACAG	CATCATTATT	TACAACTTTG	TAATCACCCA
231301	GGAGCATGAA	AATCCAGGCC	AATCTGGCAC	CATGAGCTCT	AATTTTTTGT	GGAGTTCTTG
231361	GAACCGATTG	TGATGAATGA	CTGTTTAGCC	ATTTTAGAGT	GTGGCATACG	TGGCTGCTGG
231421	CATACAGAGG	TTGGATGTAA	ACGGGCCTTT	GCCCTCTCTT	ATGAACATAG	ACAGGAACTA
231481	AACATGTGTCA	CATAGGTTCC	AAATGGTGGC	CTGAATACTA	TTTACAATA	AGGTACAATG
231541	AAATTGAGTA	AGTCTTTTCC	TCTTTTGCAG	ATACCATCAT	TATTCATATA	TTTCTTCAAA
231601	GTAACTATT	TGTATTTTGGT	AATTTTTTAAT	AGAAATGTAA	TAATTGCTTC	TCAAGTTTAG
231661	TCTTTTAGTCT	TAAGGTTGAT	GCTCTCCATG	TCCTTCCAAA	AAAAGGTATG	TTGCTTTTAT
231721	TATATCCTCG	CCTTCAGATG	GGATTATTCC	ATTTTGTCTT	TTGTTAATAT	ATACTTTGAG
231781	CCACTTTTTT	TGTGGCTCTG	GGTGAGATGC	TATAGGTACA	ATGACAAGTG	ATACGTGTGT
231841	TGTCCCTGTC	ACAAAAGTGG	ATAGCCTAAG	TGGTGACTTT	TACCTCCACT	CCAAATATAT
231901	GTATCACACA	CCAGCCGTAT	GCCAGGCACC	ACTCTAGGTG	CTAGGGATAC	AGCAGTAAAC
231961	AGACAAATGC	AACCCCTGCC	CATGTGAAAG	AGAATAAGAC	AATAAATAAG	TAAAGTGCAT
232021	GTTATATGGA	GGTGGCAAAT	GCTAAAAAGA	AAAATTAAGC	AGGCAAGAGG	ACTCATTGAA
232081	AAGATGACAT	TTGGGTAAAA	GCCCATGTAT	ATATGTTCTA	TTGGTTTTAT	TTCTCTGGAG
232141	AGCCCTGACT	AATACACAAT	GACTTTGAGA	AGTTACTGGC	TTTTGATTTA	TCACACTATT
232201	CGGAGTGCTG	AGAGCCTTCT	TAGTGTGTAT	TCAGTGTTTT	AAGAGAGCTT	GTGGATGAAT
232261	AATAAATAGG	ACAAAATTTA	TCCAAACTTA	AGCCTTGCTT	TAGGTAAAAG	GGCTCCTCTT
232321	ACAAGGTAGA	AGGTTATTAT	TTGACATTTA	AATCCAACTG	AAGACTAATA	AGACTAATTA
232381	ATTAAAAGTT	TTTAAATCAC	AACTGCGTGC	AAAATAAATG	GAACTGCCAT	GCTCGCCAAG
232441	TGTGCATGAG	TGGTGTGCAT	GGGAGACAGC	ACGAAGCTAA	TCCCCTCAT	CTTGACAGTT
232501	GCTCCATTTT	TCTCCTAAAA	TCAGTAAGAC	AGAAGCTGGT	CAGATTATCA	AGAGCCCTAG
232561	TTAAACACAG	CAGTAGCATT	TGGAAGGGGT	TGCTCTCATT	AGGCAGTGCC	TGACCACAAC
232621	AAGAGATGAA	CAAGCCCTGT	ATCTGAAGCC	ATCATGCCTA	GTTATGGTCC	CCGACTGTTC
232681	ATGATGCCTG	GAAAGGAGGC	CCCCTGCACC	CTAGAAAGCT	GGGTGGGTTT	TACTGTCTGC
232741	TTTACTGCTA	AAAACCTCTT	TCTTTGGATC	TGGACTTTAC	CTCTATCTGA	TTTTTTTTTTC
232801	TAATATATGA	TTTGGCACTG	AGTCTGTCAC	TGCTGCTAAC	TCAGCAGTTC	TAGGGTCATT
232861	GCCCCATTGC	CTCACAGAAA	GAATTTTATA	GCTTCCAGCA	TCCTCTCTCC	TTCATTATAC
232921	TTTGATTTCA	GCATTGCTAT	TTTTTCTCTT	GGGTGTTGCA	GCTCTCTCTC	TCCTTCCCAT
232981	GTCTTGTTGG	TTTTCTGCTA	ACTCCTGCTT	TTTTTCTTTT	TTTTTTTTTTG	AGACGGAGTC
233041	TCGTTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AACCTCCGCC
233101	TCCCGGGTTC	AAGCTATTCT	CCTGCCTCAG	CCTCCCAAGT	AGCTGGGACT	ACAGGCGCTC

Figure 2 (Page 72 of 74)

233161	ACCACTATGC	CCCACTAATT	TTTGTATTTT	TAGTATTGCT	GTCATCAATC	CACATGTCCA
233221	GAAGCACCTA	GAAACTCTAA	TTCTTTGTAG	GTATCAAACC	CTAGGACTCT	TTCTCTAAT
233281	CACAATATAT	AATCCCTGAT	TCCCAAACAC	GGTCTTTTCA	TATACATTTT	CCACTGTACA
233341	TACTTTCTGA	CCTGGAAAGC	TCTTACACAA	ACACGCCCTC	CCCTAGGAAG	CCTTTATAAA
233401	TGTTCCCAGG	AAGAATCAGT	CACCCAACAG	TGTCCTTGTC	ACATCTTAGG	TTCTACACCT
233461	TTATTTGTTC	TATCTGAATG	TAATCTCCCA	GAGGGTGTTA	TCATCTTTTT	TTTTGAGATG
233521	GAGTCTTGCT	TTGCTGCCCC	GGCTGGAGTG	CAGTGGCATG	ATCTCGGCTC	ACAGCAACCT
233581	CCACCTCCTG	GGTTCAAGTG	ATTCTCCTGC	CTCAGCCTCC	TGAGTAGCTG	GGATTACAGA
233641	CGTGTGTCAC	CACACCTGGC	TAATTTTTGT	ATTTTTAGTA	GAGACAGGGT	TTCACCGTGT
233701	TGGCAAGGCT	TTCTTCGAAC	TCCCAAACCT	AGGTGATCCA	CCCACCTCAG	CCTCCCAAAG
233761	TGCTGGGATT	ACAGGTGTGA	GCCACCATTG	CCAGCCCCAT	CTTTTTCTTT	TAGTTTAGTT
233821	CTTAACAAAT	AGTCTGACAC	AAAGTGGATA	TAACAATATT	TTGAATTATG	AATAACTAAA
233881	TGAATATTTT	CAGATTTTCCT	GGTGCTCTCA	AAGTTTTTATG	TTACAAAAGA	AAAACAAGTC
233941	TAAATACCT	GCCTCAAGTT	TTTATCTGTA	CTATGATTTT	AAACCAAATA	AAAAACAGGT
234001	GGGGTAAAAA	CTGAAACAGG	AAATACATAT	AACTGAAAAA	TTTTGGTATG	TTAGTATGAT
234061	AATACTAGGT	CATTTTTTCCT	GTTTCCCCAA	CTTCATTTTC	TATAGCAATA	AAAAGAAACA
234121	AGTAAATGTA	TGTTAATTTA	ATTTAAAAGA	AGTAGTCTAC	CATCTCTTCT	GTTAAAAAGA
234181	AAAAAGTATT	TTAAAAAATT	ATCTCTGGAA	GGATACACAG	GGAACATTGC	TCTGGTTTCT
234241	TCCAAGAGAG	AAATGAGGAA	CTAGAGAGCA	TGGCCAAGTG	GGGTTTTGCT	TTTGTTTTTG
234301	TTTGTCTATC	TGTTAGCTTT	TTATTATTTT	CTTTTGTAGG	TTTGAATTTT	AAACCACATA
234361	AATCTGTTAC	ATGCTCATAA	TAATAAGTTT	AAAATAAAAAC	TTTTGGCTGG	GTGCAATGAC
234421	TTACACCTGT	AATCCCAGCG	CTTTGGGAAG	CAGAGGTGGG	AGGATACTTG	AGGCCAGGAA
234481	TTTGAGATCA	GCCTGGGCAA	CATAGTGAGA	CCCTGCCTCT	GTAGAAATAA	ACAAAAATTA
234541	GCTGGATATG	GTGGTGCATG	CTTGTACTCC	TAGCTACTTG	GGAGGTTGAG	GCAGGAGGAT
234601	CCTTTGAGTC	CAGGAGTTTG	AGGCTGCAGT	GAGCTATAAT	CACCCACTGC	ACTATAGCAT
234661	GGGCAATAAG	GTGAGAACTT	GTCTCAAAAA	AAAAAGGGGG	GGGGGAAACA	AATAAATAAA
234721	TATAAACAAA	ACTTTTGTTT	CAAAATATGT	AATATTTAGC	ACTAAAGAAT	TCTGAATTGT
234781	AGAGCTAAAA	AGTACTTAAA	TATTGTCTCC	TTTAAAAGAA	TTGTTATCAA	
234841	AGTATAATTT	TTATCCAGAA	AATCATCCAT	ATCAGCAAGC	TAAACTTTCT	CAAAATGACA
234901	TATCCATGTA	ATTAGCTCCC	AGGTAATTAG	CAGGCAGCCT	CTACTCAGGT	TGAGTATTCC
234961	TAATCTAAAA	ATTGGAAATT	CAAAATGCTC	CAAAATCTGC	AACTTTTTGA	ATGCTAACAT
235021	GATTCTCAAA	GGAGTGCTCA	TGGAGTATTT	CAGATTTTGG	ATTTTTGGAT	TTGAGATACT
235081	CAGTATAATG	CAAACATTCC	AAATCTGAAA	AAATCTGAAA	TACTTCTGGT	TCTAAGCATA
235141	AGGGATACTC	AACGTGTGTT	AGCTAATTAG	ACCCTTCATG	GTCTCTTCTA	GACCTCAGCT
235201	TCTTCAAGGT	AACCTCTATC	CTCACTTCTA	ATAGCATGAA	CTTTTCTGTT	TTAGAATAAT
235261	TTGGATTTTC	AGGAAAGTTG	CAAAGATAGT	ACAAAGACAG	TACAGGAGAG	TTCCCATATA
235321	TCTTTACCTT	AGCTTTCCCC	CATTGTTAGG	ATTTTACATT	ATTATGATAC	ATTTGTCAAA
235381	TATAAGCAAC	TCACATTGAT	ACATGAAACT	CTATTAACCA	AACCCTAGAC	TTTATGTGGA
235441	TTTCACCACT	GT'TTCCACTA	ATGTTTTCTT	TCTGTTCCAA	GGTCCAATCT	GGAATACCAC
235501	ACTGCATTTT	CTTGTCATAT	CTCCCTAGTC	TTTTTTTTGTC	TGTGACAAATG	TCTCAGTCTT
235561	TTCTTGCTTT	TCATGACCTT	AACAGTCCTG	AAGATCATTT	GCTTTTTTTT	CATAATTACA
235621	CCGGAGTTAT	AGATTTTTTTG	AAATAATACC	ACAAGGGCAA	AGGGCCCTTC	TTGTCCACATC
235681	ATTTTAGGGA	GAACATGATA	TCCACATGAC	ATCACTGATA	TTAACCTTCA	TCATGTGGTT
235741	TAGGTAATGT	TTCAGGTTTC	TCTACTGCAA	AGTGATTTTT	TTCCCTTAAT	TTAGCCCACC
235801	TGAACCTATC	AATTTTGTTT	TCTTCCATGA	CTAATACTTT	TGTTATTATA	GCTAAAACCTT
235861	CATTGGGGCC	AAATCTTAGA	TCATGTAAAT	TTTCTTCTAT	ATTTTATTCT	AAAAGCTTGT
235921	AATGTTTGAT	ACATTCTAAA	AGATGTAATG	TTTGATACAT	TACATCTAGT	CCTTTGATTT
235981	ATTTTTAGTT	ACTTTTGAT	AAGGTGTGAG	AGATGTCTCC	AGTTTCACTT	TATTAACACA
236041	TTGTGGTGT	CCAGTACTAT	TTGTGCTAA	GACTATCTTT	TTTCCATTGA	TTACCTTTGC
236101	CTTAGTTGGC	AATATTTTTG	TTGGTTTATT	TCTAGACTGT	TTATCTCATT	CCACTGATTT
236161	GTGTCTATCT	TTTTTGACAAA	ACTGTTGATT	ACAGTAAGCT	TTGAAATAGT	TCATTTTTTG
236221	TGTCAACTTG	ACTGAGTCAG	GGGATAACCA	GCTATCTGGT	TAAACATTAT	TTCTGGCTGT
236281	GTTTGTGAGC	GTGTTTCTGG	ATGAGATTAG	CCTTTGAATA	GGTGATCCTA	GTAAGATAAA
236341	CTGTCTTTCC	CAGTGTGGAT	GGCATTATGC	CACCTGATAT	TCAGGGTCTG	AATAGAAGAA

Figure 2 (Page 73 of 74)

```

236401 AAGGCAGAGG AAGGGGGAAT TTGGGCCTTT TTTTCTGCCT CACTGCTTGA GCTGGGACAT
236461 CTCATCTGGT CTCCTGCTCT TGAAGTGGGA TTTACATCAT CAGTTCCTCT GGTTCCTCAGG
236521 CCTTCAGATT CAGACTGAAT CATAACACCA GCTTTCCTGG GTCTCCAGCT TGCAGATTAC
236581 AGATCATGGG ACTCCTCATC TTCCATAAAT GCATGAGCCA ATTCAGTCTA TGTCTTGAA
236641 AACTGCCCCA CTGCAGATTA AGGCTTTTTT CCACTAGGTG AAATAAAGAA GCTTGTTAGA
236701 CAGATTTCCT TTCATCCAGT GCCCTCTCCT CTTTAAGTTA CAACACATTG GCTACACCTA
236761 AGTGCAGGGG TGGGGATGAG GGTATAGTCC TCTTGTTTGC TGAGAAGAGA ACTGTATTGG
236821 GAAAGCTCTA GAAGTGTTTG ATACATACAT AAACAAGGCA TGGTTTTTGC ACTTAATTTT
236881 ACATTACATT TTTCCCAGAA AAAAAGGAAT GTATAGGCAT CACGTAAGT TACTAGCTGG
236941 AGTCATTCTT CCTGATTATC AAAGGTAAAC AGTTATTAAT CCTATACCAA GATGTCAAGG
237001 AGAAGTACTT TTGGAACACA AGGAATTCTC TGGGAGTCCT TACTACTCTC AAGCCCAGTG
237061 AAAAAGTTAA TGAAAAACTA TAGTACCTTC CTATAAGCTG GATGACTAAT TACCAGGCTC
237121 ATTTAGGAAT TTGCCTTACC AAGTAAACA TAAGGGCAGC TGAGGTGCTG ACTGAAGACA
237181 AATGGAGCAT AGAATAAGAG TAGTAAAGAA TGCCAAAAAT GCTGTCATGT ATCCATTGAC
237241 AAAAGGAGCT ATAAAGCCTT TAGGTATTTT CACACTTGCT CTGTTACGTA AATGTATGTG
237301 TGTGTGTGTG TGTGTGTGTG TGTGTG
//

```

Figure 2 (Page 74 of 74)

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **POLYMORPHISMS IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE** the specification of which ___ is attached hereto or X was filed on _____ as Application No. ___ and was amended on ___ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
			Yes _ No _
			Yes _ No _

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
08/724,394	10/01/96	_ Patented <u> X </u> Pending _ Abandoned
08/652,265	05/23/96	_ Patented <u> X </u> Pending _ Abandoned
08/630,912	04/04/96	_ Patented <u> X </u> Pending _ Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Renee A. Fitts, Reg. No. 35,136
William M. Smith, Reg. No. 30,223
James M. Heslin, Reg. No. 29,541
Joe Liebeschuetz, Reg. No. 37,505
John R. Storella, Reg. No. 32,944

Send Correspondence to: Renee A. Fitts, Esq. TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, CA 94111-3834	Direct Telephone Calls to: (Name, Reg. No., Telephone No.) Name: Renee A. Fitts, Esq. Reg. No.: 35,136 Telephone: (415) 326-2400
--	---

Full Name of Inventor 1	Last Name Ruddy	First Name David	Middle Name or Initial A.	
Residence & Citizenship	City San Francisco	State/Foreign Country California	Country of Citizenship United States of America	
Post Office Address	Post Office Address 855 Greenwich Street	City San Francisco	State/Country California	Zip Code 94133
Full Name of Inventor 2	Last Name Wolff	First Name Roger	Middle Name or Initial K.	
Residence & Citizenship	City Mill Valley	State/Foreign Country California	Country of Citizenship United States of America	
Post Office Address	Post Office Address 41 Eugene Street	City Mill Valley	State/Country California	Zip Code 94941

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 4 David A. Ruddy	Signature of Inventor 5 Roger K. Wolff
Date	Date



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY OF COMMERCE AND
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

NOTICE OF FILING/CLAIM FEE(S) DUE
TO ENSURE PROPER CREDIT OF FEES, PLEASE RETURN A COPY OF THIS
FEE CALCULATION SHEET WITH YOUR RESPONSE.

APPLICATION NUMBER: 08/852,495

Total Fee Calculation

Fee Code	Total # Claims	Number Extra	X	Fee	Fee =	Total
Sm./Lg.				Sm. Entity	Lg. Entity	
Basic Filing Fee	<u>201/101</u>				<u>770</u>	<u>770</u>
Total Claims >20	<u>203/103</u>	<u>28</u>	-20 = <u>8</u>	X	<u>22</u>	<u>176</u>
Independent Claims >3	<u>202/102</u>	<u>6</u>	-3 = <u>3</u>	X	<u>80</u>	<u>240</u>
Mult. Dep Claim Present	<u>204/104</u>					
Surcharge	<u>205/105</u>				<u>130</u>	<u>130</u>
English Translation	<u>139</u>					
<u>TOTAL FEE CALCULATION</u>						<u>1,316</u>

Fees due upon filing the application:

Total Filing Fees Due = \$ 1,316

Less Filing Fees Submitted - \$

BALANCE DUE = \$ 1,316

M. H. Can Van

Office of Initial Patent Examination